RECORD OF DECISION for OPERABLE UNIT 2 FORT WAINWRIGHT FAIRBANKS, ALASKA

January 1997

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DECLARATION STATEMENT

for RECORD OF DECISION FORT WAINWRIGHT FAIRBANKS, ALASKA OPERABLE UNIT 2 JANUARY 1997

SOURCE AREA NAME AND LOCATION

Operable Unit 2 Fort Wainwright Fairbanks, Alaska

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STATEMENT OF BASIS AND PURPOSE

This Record of Decision (ROD) presents the selected remedial actions for Operable Unit 2 (OU-2) at Fort Wainwright in Fairbanks, Alaska. OU-2 originally consisted of eight source areas: the Defense Reutilization and Marketing Office (DRMO) Yard, the Building 1168 Leach Well, the North Post Site, the 801 Drum Burial Site, the Engineers Park Drum Site, the Drum Site South of the Landfill, Building 3477, and the Tar Sites. This ROD was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 as amended by the Superfund Amendments and Reauthorization Act of 1986 and 42 United States Code 9601 et seq., and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan and 40 Code of Federal Regulations 300 et seq. This decision is based on the Administrative Record for this OU.

The United States Army, the United States Environmental Protection Agency, and the State of Alaska, through the Alaska Department of Environmental Conservation, have agreed to the selected remedies.

ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from the DRMO Yard and Building 1168 Leach Well source areas, if not addressed by implementing the response actions selected in this ROD, may present a substantial endangerment to public health, welfare, or the environment. Specific hazardous substances in the soil and groundwater at the DRMO Yard and Building 1168 Leach Well include benzene, tetrachloroethene, trichloroethene, and petroleum by-products.

DESCRIPTION OF THE SELECTED REMEDIES

This is the third OU to reach a final-action ROD at this National Priorities List site. This ROD addresses soil and groundwater contamination at OU-2.

The 801 Drum Burial Site, Engineers Park Drum Site, and Drum Site South of the Landfill were assigned to the Fort Wainwright OU-1 investigation and will be addressed through the

OU-1 decision process. No further action is selected for Building 3477 and the Tar Sites. The contaminated soils at the North Post Site were addressed adequately through an Army removal action; it is anticipated that this will constitute final action for the North Post Site. Therefore, no analysis of remedial alternatives was conducted for these source areas. The documents recommending these actions are included in Appendix A.

The remedial action objectives for the DRMO Yard and Building 1168 Leach Well are designed to:

- Restore groundwater to drinking water quality;
- Prevent further leaching of contaminants into groundwater;
- Reduce or prevent further off-site migration of contaminated groundwater; and
- Prevent use of groundwater above federal Safe Drinking Water Act and State of Alaska Drinking Water Standards (18 Alaska Administrative Code 80) maximum contaminant levels (MCLs).

The major components of the remedies at both source areas are:

- In situ soil vapor extraction and air sparging of the groundwater to reduce volatile organic compounds to a level that meets state and federal MCLs;
- Institutional controls that would include restrictions on groundwater well installations, site access restrictions, and maintenance of fencing at the DRMO Yard until state and federal MCLs are met;
- Additional institutional controls, including a limitation on refilling the DRMO Yard fire suppression water tank from the existing potable water supply well, until state and federal MCLs are met (except in emergency situations); and
- Natural attenuation to attain Alaska Water Quality Standards after reaching state and federal MCLs.

STATUTORY DETERMINATION

The selected remedial actions are protective of human health and the environment, comply with federal and state requirements that are legally applicable or relevant and appropriate to the remedial actions, and are cost-effective.

The remedies utilize permanent solutions and alternative treatment technologies to the maximum extent practicable and satisfy the statutory preference for remedies that employ

treatment that reduces toxicity, mobility, or volume (of contaminated media) as a principal element.

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Because these remedies will result in hazardous substances at concentrations remaining above regulatory levels at these source areas, a policy review will be conducted within five years after commencement of the remedial action to ensure that the remedies continue to provide adequate protection of human health and the environment.

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SIGNATURES

Signature sheet for the foregoing Operable Unit 2, Fort Wainwright, Record of Decision between the United States Army and United States Environmental Protection Agency, Region 10, with concurrence by the Alaska Department of Environmental Conservation.

27 March 1994

WILLIAM M. STEELE Lieutenant General, USA Commanding

Date

SIGNATURES

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Signature sheet for the foregoing Operable Unit 2, Fort Wainwright, Record of Decision between the United States Army and United States Environmental Protection Agency, Region 10, with concurrence by the Alaska Department of Environmental Conservation.

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Chuck Clarke Regional Administrator, Region 10 United States Environmental Protection Agency

3-31-97

Date

SIGNATURES

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Signature sheet for the foregoing Operable Unit 2, Fort Wainwright, Record of Decision between the United States Army and United States Environmental Protection Agency, Region 10, with concurrence by the Alaska Department of Environmental Conservation.

Kurt Fredriksson

Director, Spill Prevention and Response Alaska Department of Environmental Conservation Date

2/2 - 2

TABLE OF CONTENTS

Section	Page
DECLAR	RATION STATEMENT
DECISIC	N SUMMARY 1
1 1 1	ITE DESCRIPTION 2 1.1 SITE LOCATION AND DESCRIPTION 2 1.1.1 801 Drum Burial Site 2 1.1.2 Engineers Park Drum Site 3 1.1.3 Drum Site South of the Landfill 3 1.1.4 Building 3477 3 1.1.5 Tar Sites 3 1.1.6 Defense Reutilization and Marketing Office Yard 4 1.1.7 Building 1168 Leach Well 4 1.1.8 North Post Site 5 1.2 SOILS AND GEOLOGY 5 1.3 HYDROGEOLOGY AND GROUNDWATER USE 5
2	SITE HISTORY AND ENFORCEMENT ACTIVITIES 13 2.1 SITE HISTORY 13 2.1.1 Defense Reutilization and Marketing Office Yard 13 2.1.2 Building 1168 Leach Well 13 2.2 ENFORCEMENT ACTIVITIES 14 2.3 HIGHLIGHTS OF COMMUNITY PARTICIPATION 14 2.4 SCOPE AND ROLE OF OPERABLE UNIT OR 15
3	SUMMARY OF SOURCE AREA CHARACTERISTICS 16 3.1 DEFENSE REUTILIZATION AND MARKETING OFFICE YARD 16 3.1.1 Physical Features, Hydrogeologic Conditions, and Transport Pathways 16 3.1.2 Nature and Extent of Contamination 17 3.1.3 Defense Reutilization and Marketing Office Yard Summary 19 3.2 BUILDING 1168 LEACH WELL 20 3.2.1 Physical Features, Hydrogeologic Conditions, and Transport Pathways 20 3.2.2 Nature and Extent of Contamination 20
	3.2.2 Nature and Extent of Contamination

<u>.</u>....

 $<\infty$

.

4.0	SUMMARY OF SITE RISKS							
	4.1	IDENT	IFICATIC	ON OF CONTAMINANTS OF CONCERN	4			
	4.2	EXPOS	URE ASS	SESSMENT	5			
		4.2.1	Identific	ation of Site Uses, Exposed Populations,				
			and Exp	osure Pathways 55	5			
			4.2.1.1	Source Area Land Use Scenarios				
				Exposure Pathways and Assumptions 55	5			
			4.2.1.3	Calculation of Exposure 50				
	4.3			ESSMENT				
	4.4	RISK C		TERIZATION				
		4.4.1	Defense	Reutilization and Marketing Office Yard 58				
		4.4.2		1168 Leach Well 59				
	4.5	MAJOF	R UNCER	TAINTIES				
	4.6	ECOLO		21SKS				
		4.6.1	Problem	Formulation ,				
		4.6.2		6				
		4.6.3		aracterization				
			4.6.3.1	Risk Estimation				
			4.6.3.2	Risk Description	2			
5.0				ERNATIVES				
	5.1	NEED	-	AEDIAL ACTION 7				
		5.1.1		Reutilization and Marketing Office Yard 78				
		5.1.2	-	1168 Leach Well 78				
	5.2			FION OBJECTIVES 79	9			
	5.3			APPLICABLE OR RELEVANT				
				ATE REQUIREMENTS 8				
	5.4			OF ALTERNATIVES				
		5.4.1		Reutilization and Marketing Office Yard				
				Alternative 1: No Action 8	0			
			5.4.1.2	Alternative 2: Institutional Controls and				
				Natural Attenuation with Groundwater				
				Monitoring/Evaluation 8	0			
			5.4.1.3	Alternative 3: Soil Vapor Extraction,				
				Groundwater Air Sparging, Natural Attenuation,	_			
			_	and Groundwater Monitoring/Evaluation	2			
			5.4.1.4	Alternative 4: Alternative 3 Plus Excavation				
				of Surface Soils Containing Benzo(a)pyrene and	_			
				Disposal at the Fort Wainwright Landfill	3			
			5.4.1.5	Alternative 5: Alternative 3 Plus Excavation				
				and On-Site Solidification of	~			
			.	Benzo(a)pyrene-Contaminated Soils 83				
		5.4.2		1168 Leach Well 8				
				Alternative 1: No Action	4			
			5.4.2.2	Alternative 2: Institutional Controls and				
				Natural Attenuation	4			
			5.4.2.3	Alternative 3: Soil Vapor Extraction,	_			
				Groundwater Air Sparging, and Monitoring 85	5			

175

 $s^{-1} \in \mathbb{R}$

 $\sim -$

64913

			5.4.2.4	Alternative 4: Alternative 3 Plus Excavation and Low-Temperature Thermal Desorption of Contaminated Unsaturated Soil	86
			5425	Alternative 5: Alternative 3 Plus Excavation	00
			0.1.2.0	and Engineered Pile Treatment (Biopile and Vapor	
				Extraction Pile) of Contaminated Unsaturated Soil	87
				,,	
6.0	SUMM	IARY OF	COMPA	RATIVE ANALYSIS OF ALTERNATIVES	92
	6.1	DEFEN	ISE REU	TILIZATION AND MARKETING OFFICE	
		YARD	SOURCE	E AREA (COMPARATIVE ANALYSIS OF	
		ALTER		S)	92
		6.1.1	Thresho	Id Criteria	92
			6.1.1.1	Overall Protection of Human Health	
				and the Environment	92
			6.1.1.2	Compliance with Applicable or Relevant and	
				Appropriate Requirements	92
		6.1.2		alancing Criteria	
				Long-Term Effectiveness and Permanence	92
			6.1.2.2	Reduction of Toxicity, Mobility, and Volume	
				Through Treatment	92
				Short-Term Effectiveness	93
				Implementability	93
				Cost	93
		6.1.3		ng Criteria	93
				State Acceptance	93
				Community Acceptance	94
	6.2			LEACH WELL (COMPARATIVE ANALYSIS	
				IVES)	94
		6.2.1		ld Criteria	94
			6.2.1.1	Overall Protection of Human Health	
				and the Environment	94
			6.2.1.2	Compliance with Applicable or Relevant	
				and Appropriate Requirements	94
		6.2.2		g Criteria	94
				Long-Term Effectiveness and Permanence	94
			6.2.2.2	Reduction of Toxicity, Mobility, and	
				Volume Through Treatment	94
				Short-Term Effectiveness	95
				Implementability	95
		< A +		Cost	95
		6.2.3		ng Criteria	95
				State Acceptance	95
			6.2.3.2	Community Acceptance	95

x

- .

· <u>•</u>

·...

 γ_{ij}

~ . .

-

-

7.0	SELEC	TED RE	98 MEDIES
	7.1	DEFEN	SE REUTILIZATION AND MARKETING OFFICE YARD 98
	- • -	7.1.1	Major Components of the Selected Remedy
		7.1.2	Goals of Remedial Action
			7.1.2.1 Defense Reutilization and Marketing Office
			Yard Groundwater and Soil
	7.2	BUILD	ING 1168 LEACH WELL 100
		7.2.1	Major Components of the Selected Remedy 100
		7.2.2	Goals of Remedial Action 101
		7.2.3	Building 1168 Leach Weil Groundwater and Soil
8.0	TTATT:	TORV	DETERMINATIONS
a.v	8.1	DONT	CTION OF HUMAN HEALTH AND THE ENVIRONMENT . 108
	0.1	8.1.1	Defense Reutilization and Marketing Office Yard
		8.1.2	Building 1168 Leach Well
	8.2		LIANCE WITH APPLICABLE OR RELEVANT AND
	0.2		PRIATE REQUIREMENTS AND TO-BE-CONSIDERED
		GUIDA	-
		8.2.1	Applicable or Relevant and Appropriate Description 108
		8.2.2	Chemical-Specific Applicable or Relevant and
		0.2.2	Appropriate Requirements
		8.2.3	Location-Specific Applicable or Relevant and
			Appropriate Requirements
		8.2.4	Action-Specific Applicable or Relevant and
		0.21	Appropriate Requirements
		8.2.5	Information To-Be-Considered 110
	8.3	COST	EFFECTIVENESS 111
	8.4	UTILIZ	LATION OF PERMANENT SOLUTIONS AND
			NATIVE TREATMENT TECHNOLOGIES OR
		RESOU	JRCE RECOVERY TECHNOLOGIES TO THE MAXIMUM
			VT PRACTICABLE
	8.5	PREFE	RENCE FOR TREATMENT AS A MAIN ELEMENT 111
0.0	DOGU	1.7775.FTF A	TION OF SIGNIFICANT CHANGES
9.0	DOCU	MENIA	TION OF SIGNIFICANT CHANGES
<u>Apper</u>	<u>ndix</u>		
А	FORT	WAINW	RIGHT COMPREHENSIVE ENVIRONMENTAL
л			OMPENSATION, AND LIABILITY ACT
			CILITY AGREEMENT RECOMMENDED
			UMENTS
B	ADMIN	NISTRA	TIVE RECORD INDEX
С	RESPO	NSIVE	NESS SUMMARY 139
D			RIGHT OPERABLE UNIT 2 SOURCE AREA BASELINE
	COST	ESTIMA	TES FOR REMEDIAL ALTERNATIVES

-..

18

∽. .

64915

LIST OF TABLES

•

....

~ ~

· ·,

<u>Table</u>		Page
3-1	Summary of Surface and Subsurface Soil Sample Results, DRMO Yard Source Area	23
3-2	Summary of Sediment Sample Results, DRMO Yard Source Area	. 29
3-3	Summary of Groundwater Monitoring Well Sample Results, DRMO Yard Source Area	31
3-4	Summary of Groundwater Probe Sample Results, DRMO Yard Source Area	. 35
3-5	Summary of Surface Water Sample Results Collected From Channel B, DRMO Yard Source Area	39
3-6	Summary of Soil Sample Results, Building 1168 Leach Well Source Area	. 41
3-7	Summary of Groundwater Sample Results, Building 1168 Leach Well Source Area	43
3-8	Summary of Microwell Sample Results, Building 1168 Leach Well Source Area	46
4-1	Contaminants of Concern in Soil and Groundwater from the Human Health Risk Assessment	6 5
4-2	Potential Exposure Routes, DRMO Yard Source Area	67
4-3	Potential Exposure Routes, Building 1168 Leach Well Source Area	68
4-4	Exposure Point Concentration and Statistical Summary, Chemical of Potential Concern, Surface Soil at the DRMO Yard	69

List of Tables (Cont.)

12

<u>Table</u>		<u>Page</u>
4-5	Exposure Point Concentration and Statistical Summary, Chemical of Potential Concern, Surface Soil at the DRMO Yard	70
4-6	Exposure Point and Statistical Summary of Chemicals of Potential Concern for Groundwater at the DRMO Yard	71
4-7	Exposure Point Concentration and Statistical Summary of Contaminants of Potential Concern for Groundwater at Building 1168 Leach Well	74
4-8	Summary of Incremental Carcinogenic Risks and Noncarcinogenic Hazard Indices for Potentially Exposed Populations at the DRMO Yard	75
4-9	Summary of Incremental Carcinogenic Risks and Noncarcinogenic Hazard Indices for Potentially Exposed Populations at Building 1168 Leach Well Source Area	77
5-1	Selection of Chemicals of Concern for Remedial Evaluation in the Feasibility Study for DRMO Yard	88
5-2	Selection of Chemicals of Concern to the Feasibility Study for Building 1168 Leach Well Source Area	90
6-1	Present Worth Costs for Remedial Alternatives, DRMO Yard Source Area	96
6-2	Present Worth Costs for Remedial Alternatives, Building 1168 Leach Well Source Area	97
7-1	DRMO Yard Remedial Action Objectives and Remediation Goals	103
7-2	Chemical-Specific Cleanup Goals for Soil, DRMO Yard Source Area	104
7-3	Building 1168 Leach Well Source Area Remedial Action Objectives and Remediation Goals	105
7-4	Chemical-Specific Cleanup Goals for Soil, Building 1168 Leach Well Source Area	107

LIST OF ILLUSTRATIONS

13

• . .

. -

<u>Figure</u>		<u>Pag</u>	<u>e</u>
1-1	Source Area Location Map		8
1-2	DRMO Yard Source Area Location Map	• • •	9
1-3	Building 1168 Leach Well Source Area Location Map	. 1	0
1-4	North Post Site Source Area Location Map	. 1	1
1-5	Water Supply Well	. 1	2
3-1	DRMO Yard Source Area, Contaminants of Concern in Surface Soil	. 5	0
3-2	DRMO Yard Source Area, Contaminants of Concern in Groundwater	. 5	1
3 -3	Building 1168 Leach Well Source Area, Contaminants of Concern in Subsurface Soil	5:	2
3-4	Building 1168 Leach Well Source Area, Contaminants of Concern in Groundwater	5.	3
5-1	Aerial Extent of Proposed Active Treatment, Alternative 3, DRMO Yard Source Area	9 :	1

DECISION SUMMARY

RECORD OF DECISION for OPERABLE UNIT 2 FORT WAINWRIGHT FAIRBANKS, ALASKA JANUARY 1997

This decision summary provides an overview of the problems posed by the contaminants at Fort Wainwright, Operable Unit 2 (OU-2), source areas. This summary describes the physical features of the site, the contaminants present, and the associated risks to human health and the environment. The summary also describes the remedial alternatives considered; provides the rationale for the remedial actions selected; and states how the remedial actions satisfy the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) statutory requirements.

The United States Army (Army) completed a Remedial Investigation (RI) to provide information regarding the nature and extent of contamination in the soils and groundwater. A Baseline Human Health and Ecological Risk Assessment was developed and used in conjunction with the RI to determine the need for remedial action and to aid in the selection of remedies. A Feasibility Study (FS) was completed to evaluate remedial options.

1.0 SITE DESCRIPTION

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1.1 SITE LOCATION AND DESCRIPTION

Fort Wainwright, also referred to as *the site*, occupies 915,000 acres on the east side of Fairbanks, Alaska. Fort Wainwright originally was established in 1938 as a cold weather testing station. During World War II, it served as a crew transfer point in the United States-Soviet Union Lend-Lease Program. After the war, it became a resupply and maintenance base for remote experimental stations in the Arctic Ocean and remote Distant Early Warning sites throughout Alaska. In 1961, Fort Wainwright was transferred to the Army.

Current primary missions at Fort Wainwright include training of infantry soldiers in the arctic environment, testing of equipment in arctic conditions, preparation of troops for defense of the Pacific Rim, and rapid deployment of troops worldwide. On-site industrial activities include use and maintenance of fixed-wing aircraft, helicopters, vehicles, and support activities. Fort Wainwright includes the main post area, two range complexes, and two maneuver areas.

OU-2 originally consisted of the following eight source areas: the North Post Site, the 801 Drum Burial Site, the Engineers Park Drum Site, the Drum Site South of the Landfill, Building 3477, four Tar Sites, the Defense Reutilization and Marketing Office (DRMO) Yard, and the Building 1168 Leach Well. All OU-2 source areas have undergone Preliminary Source Evaluations, which include historical record reviews and, if necessary, limited field investigations. These investigations determined whether a source area should be referred to another federal or state program or another OU, recommended for no further action (NFA), or included in the CERCLA remedial investigation. Petroleum contamination can be addressed in the Two-Party Agreement between the State of Alaska and the Army.

The Chena River flows through Fort Wainwright and the City of Fairbanks, into the Tanana River. Figure 1-1 illustrates the entire installation and each source area's location. All source areas are in a 500-year floodplain, except for the North Post and Engineers Park Drum Sites, which are in the 100-year floodplain. No threatened or endangered species reside in the area. Small ponds and wetlands are adjacent to the DRMO Yard. No known historic sites are associated with the source areas.

1.1.1 801 Drum Burial Site

The 801 Drum Burial Site is in an undeveloped depression between River Road and the Chena River, approximately 0.13 mile east of the 801 military housing area. This source area is shown in Figure 1-1.

This source area was assigned to the Fort Wainwright OU-1 investigation and will be addressed through the OU-1 decision process. The decision document recommending this action is included in Appendix A. Therefore, the 801 Drum Burial Site source area will not be discussed further in this Record of Decision (ROD).

1.1.2 Engineers Park Drum Site

The source area location is shown in Figure 1-1. The Engineers Park Drum Site is located on the northeast side of Engineers Park, on the south bank of the Chena River. Drum disposal reportedly began at this source area after the 1967 Chena River flood.

This source area was assigned to the Fort Wainwright OU-1 investigation and will be addressed through the OU-1 decision process. The decision document recommending this action is included in Appendix A. Therefore, the Engineers Park Drum Site source area will not be discussed further in this ROD.

1.1.3 Drum Site South of the Landfill

The Drum Site South of the Landfill is located 2,000 feet south of the Fort Wainwright Landfill, as shown in Figure 1-1. Historical information and records regarding drum disposal at this source area are not available. This site was identified as a potential source in the Resource Conservation and Recovery Act (RCRA) Facility Assessment conducted in 1988.

This source area was assigned to the Fort Wainwright OU-1 investigation and will be addressed through the OU-1 decision process. The decision document recommending this action is included in Appendix A. Therefore, the Drum Site South of the Landfill will not be discussed further in this ROD.

1.1.4 Building 3477

Building 3477 is located on Chippewa Avenue, approximately 0.25 mile northeast of the South Gate Road Gate House (see Figure 1-1). Building 3477 was constructed as a vehicle maintenance facility in 1955 and is being used for vehicle and equipment maintenance. Batteries were serviced and stored at the site for an unknown period of time. In 1990, the Army discontinued this practice and contracted for cleaning the battery service area. Storage of old batteries continued along the east side of the building until they were disposed of.

Site investigations that included sampling and analysis of soil and groundwater in 1992 indicated that the source area was no longer being used for battery storage. Concentrations of suspected contaminants were below the United States Environmental Protection Agency's (EPA's) Region 3 risk-based screening levels based on residential land use. EPA, Region 10, *Supplemental Risk Assessment Guidance* recommends use of EPA, Region 3, risk-based screening criteria.

NFA is recommended for Building 3477 under CERCLA. This recommendation is recorded in the decision document included in Appendix A. The Building 3477 source area will not be discussed further in this ROD.

1.1.5 Tar Sites

The Tar Sites are in four locations: west of the South Post soccer field, on Southgate Road on the former South Post parade field; at Glass Park next to Building 4040; northwest of the Post Golf Course on the north bank of the Chena River; and west of the Post Power Plant cooling pond next to the railroad (see Figure 1-1). These locations generally are covered by soil and vegetation.

The Tar Sites reportedly were used as tar disposal areas. An investigation conducted in June and July 1992 indicated that the analyzed tar samples have no potential to leach to groundwater. These results indicate that the Tar Sites should be addressed as a solid waste or through recycling/reuse. NFA is recommended for the Tar Sites under CERCLA. This recommendation is recorded in the decision document included in Appendix A. The Tar Sites source area will not be discussed further in this ROD.

1.1.6 Defense Reutilization and Marketing Office Yard

A detailed map of the DRMO Yard source area is depicted in Figure 1-2. The DRMO Yard is located along Badger Road, northwest of Badger Road and the Richardson Highway. The DRMO Yard source area is a fenced compound covering approximately 25 acres and containing seven buildings. The DRMO Yard contains numerous aisles of surplus appliances, tires, transformers, and wire. In addition, it serves as the hazardous material transfer point for Fort Wainwright, Fort Greely, and Eielson Air Force Base. The yard's function is to store obsolete, surplus, unserviceable equipment and supplies for transfer to another authorized user, for public auctions, or for destruction and disposal. Historical records of DRMO Yard activities were not maintained routinely. The DRMO Yard operates as a storage facility in accordance with the Fort Wainwright RCRA Part B Permit.

Approximately 200 feet east of the DRMO Yard source area is the Arctic Surplus site, a privately owned facility and a CERCLA National Priorities List (NPL) site. Many items formerly stored at the DRMO Yard were sold to Arctic Surplus.

1.1.7 Building 1168 Leach Well

A detailed map of the Building 1168 Leach Well source area is depicted in Figure 1-3. Building 1168 is located on the north side of Trainor Gate Road, adjacent to the Trainor Gate entrance and within approximately 200 feet of the Post boundary to Fort Wainwright. The Building 1168 Leach Well source area is surrounded by fenced storage yards on the north and east and by unrestricted parking lots on the south and west. Building 1168 is a single-story, 65-foot by 95-foot, lube oil and vehicle storage facility, equipped with a 2,000-gallon heating oil tank and a septic system for sanitary waste. A 10,000-gallon aboveground storage tank (AST) was located inside the southeast corner of the building. In 1958, the tank was removed and the area was converted to a petroleum, oil, and lubricant (POL) laboratory. Five floor drains were located in the west half of the building and were used to drain into an oil/water separator that emptied into a 250-gallon underground storage tank (UST) and a leach well. During summer 1995, the floor drains were filled and the UST and leach well were removed completely from service.

1.1.8 North Post Site

A detailed map of the North Post Site is depicted in Figure 1-4. The North Post Site covers approximately 45 acres and is located northwest of and adjacent to two military housing areas, on an oxbow of the Chena River.

In 1947, the Arctic Aeromedical Laboratory (AAL) began operating on the northwest portion of the source area. The laboratory conducted cold adaptation and acclimatization experiments for 20 years. In 1967, the facility was closed. In addition to AAL, several temporary buildings and a radio transmitter were located in the vicinity. The transmitter was most likely a base radio station. Historical photographs show that a slough of the Chena River separated the North Post Site source area from the main Post. This slough apparently was filled with construction debris during the 1940s and early 1950s.

The North Post Site was discovered during a 1985 geotechnical investigation for construction of a proposed housing development. The drilling crew noticed strong odors in soil borings on the west side of the oxbow area. Additional soil borings and wells were drilled, and petroleum and solvents were identified in the west portion of the oxbow. Additional sampling and evaluation occurred in 1986 and 1987 to investigate and delineate areas of potential contamination. An endangerment assessment was conducted to evaluate whether hazardous wastes were present and whether they presented a threat to human health.

While most of the site was found to be free of contamination, fuels, solvents, pesticides, and metals were identified in discrete locations within this source area. Additional samples were collected at these sites to further characterize contamination and to evaluate levels for the Baseline Risk Assessment.

Petroleum-contaminated soil was removed and treated by the Army in 1993. In situ groundwater treatment continues at one of the source areas under the jurisdiction of the Two-Party Agreement between the State of Alaska and the Army. During summer 1996, the Army conducted an additional removal action that included excavation, treatment, and proper disposal of soils containing fuel-related products. This is anticipated to be the final action for this source area. The final report on this removal action may be found in Appendix A. Therefore, the North Post Site will not be discussed further in this ROD.

1.2 SOILS AND GEOLOGY

Fort Wainwright is underlain by soil and unconsolidated sediment that consist of silt, sand, and gravel and range in thickness from 10 feet to more than 400 feet before encountering bedrock. A 5-foot-thick surficial soil layer of fine-grained soil overlies the deeper alluvial deposits. The surficial soil consists of varying proportions of sand and gravel, which generally are layered. At the base of Birch Hill and in areas adjacent to the Chena River, soil types are coarse-grained and have high percentages of sand and gravel. Within the shallow alluvial aquifer, predominant groundwater flow beneath Fort Wainwright is toward the Chena River.

1.3 HYDROGEOLOGY AND GROUNDWATER USE

The main aquifer in the Fort Wainwright area is the Tanana Basin alluvial aquifer in a buried river valley. This aquifer ranges from a few feet thick at the base of Birch Hill to at least 300 feet thick under the fort's main cantonment area. The aquifer may reach a thickness of 700 feet in the Tanana River valley. Groundwater in the Tanana-Chena floodplain generally is considered to be unconfined in permafrost-free areas. A confined aquifer may develop seasonally where the depth to the water table is less than the depth of the seasonal frost

penetration. The depth to groundwater varies and may range from 2 feet to 18 feet below ground surface (BGS) at OU-2 source areas.

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Groundwater movement between the Tanana and Chena Rivers generally follows a northwest regional direction, similar to the flow direction of the rivers. The Chena River flows through Fort Wainwright and the City of Fairbanks, into the Tanana River. The Tanana River borders the south portion of Fort Wainwright. Flow probes near OU-2 source areas indicate seasonal changes in flow direction of up to 180 degrees. This is because of the effects of changing river stages in the Tanana River and, to a lesser extent, in the Chena River. Groundwater levels near the Chena River fluctuate greatly because of river stage and interactions with the Tanana River. Typically, groundwater levels rise when the river stage increases, particularly during spring breakup and the late summer runoff. Groundwater levels usually drop during fall and winter, when precipitation becomes snow. During winter, groundwater seeps into surface water bodies, such as the Chena River, and produces overflow ice. In addition to shifts in the groundwater flow direction due to the surface water hydrology, the groundwater flow direction may be impacted by high-volume pumping at offpost gravel pits for dewatering activities.

Where present, permafrost forms discontinuous confining layers that influence groundwater movement and distribution. The depth to permafrost, when present, ranges from 2 feet to 40 feet BGS. The greater depths are found on cleared and developed land surfaces, where thermal degradation of underlying permafrost occurs.

Groundwater is the only source of potable water used at Fort Wainwright and the Fairbanks area. Approximately 95% of Fort Wainwright's potable water is supplied through a single distribution system which is normally fed by two large-capacity wells located in Building 3559, near the Post Power Plant (see Figure 1-5). These wells were completed at a depth of approximately 80 feet and provide between 1.5 million and 2.5 million gallons of water to the Post Water Treatment Plant for processing and distribution.

In addition to the main drinking water supply wells, there are five emergency standby supply wells located around the cantonment area. These wells have been completed between 80 feet and 120 feet and are capable of pumping approximately 250,000 gallons per day per well. These wells, if used in an emergency, will supply minimally treated water to Fort Wainwright's main drinking water supply system.

During summer 1996, a potable water supply/fire suppression well was installed in the DRMO Yard, 50 feet upgradient of the defined solvent plume and 100 feet downgradient of a defined petroleum plume. Associated with the fire suppression system is a 400,000-gallon tank. To prevent hydraulic movement of the adjacent plumes, the *State of Alaska Plan Approval to Construct* stipulated a pumping rate limitation of 60 gallons per minute. Additionally, contract restrictions required that initial filling of the storage tank be done with tank trucks rather than from the DRMO Yard aquifer. A granulated activated carbon treatment system was installed for the drinking water supply to remove taste, odor, and potential contaminants of concern.

Residential developments that utilize private wells for domestic water supply are close to the DRMO Yard and Building 1168 Leach Well source areas. Some of these private wells near

the DRMO Yard are contaminated with solvents and petroleum products. The DRMO Yard is not considered the source of these contaminants. Federal and state regulatory agencies are investigating several locations, not associated with Fort Wainwright, that were identified as potential sources of this contamination.

The City of Fairbanks uses the same aquifer and has four developed Municipal Utility System wells located 1 mile downgradient of the Post's boundaries, on the banks of the Chena River. These wells serve as the main drinking water supply for most of the City of Fairbanks.

1.4 LAND USE

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Current land use for the OU-2 source areas is light industrial. Although no residences are located on any source area, residential developments are close to the DRMO Yard and Building 1168 Leach Well source areas. Domestic water use occurs at one OU-2 source area: the DRMO Yard. Groundwater in the aquifer under these source areas is the sole source of drinking water for Fort Wainwright and the City of Fairbanks. Operations at the DRMO Yard and Building 1168 Leach Well are expected to continue indefinitely. Access is unrestricted to OU-2 source areas, except for the DRMO Yard.





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2.0 SITE HISTORY AND ENFORCEMENT ACTIVITIES

2.1 SITE HISTORY

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The DRMO Yard and Building 1168 Leach Well source areas have limited documents available to describe past practices. However, most source areas underwent evaluations, including sampling and analyses, before the RI. The source areas were listed as hazardous waste sites requiring further evaluation in the RCRA Facility Assessment.

2.1.1 Defense Reutilization and Marketing Office Yard

From 1945 to 1961, the DRMO Yard was used for vehicle storage and contained a vehicle maintenance shop. In 1961, the source area was converted into a salvage yard and was used to store drums of waste oil; pesticides; solvents; vehicle fluids such as antifreeze and hydraulic fluid; asphalt; and electrical transformers, some of which may have contained polychlorinated biphenyls (PCBs). Many drums reportedly leaked. Items such as mattresses, wood furniture, and possibly plastics were incinerated routinely in a burn pit. It is likely that the drummed fluids also were disposed of by burning. Waste oil, which historically contained heavy metals, solvents, PCBs, and other contaminants, was used to control dust on roads in the DRMO Yard during the 1970s and early 1980s. During the early 1980s, an estimated 3,000 gallons to 8,000 gallons of No. 1 diesel fuel were spilled near the former location of Building 5001. Cleanup included spreading the contaminated soil throughout the yard. Storage and destruction records were maintained by DRMO Yard personnel for three years and then were destroyed. Consequently, complete records of DRMO Yard activities are unavailable.

From 1988 to 1996, eight leaking underground petroleum storage tanks, ranging in size from 500 gallons to 10,000 gallons, were removed from the DRMO Yard. Cleanup of the associated petroleum-contaminated soil and groundwater is being conducted under the Two-Party Agreement.

From 1990 through 1993, investigations including geophysical surveys, surface and subsurface soil sampling, and installation of groundwater monitoring wells were conducted to identify the extent of contamination at the DRMO Yard.

The DRMO Yard serves as the permitted hazardous material transfer point for Fort Wainwright, Fort Greely, and Eielson Air Force Base.

2.1.2 Building 1168 Leach Weil

Building 1168 was constructed as a lube oil and vehicle storage facility in 1949 and was converted into a petroleum test laboratory in 1962. The building contained a 10,000-gallon lube oil AST, oil/water separator system, 250-gallon UST that discharged to the leach well, 2,000-gallon heating oil UST, and septic system for sanitary waste. Contaminant and water mixtures apparently entered floor drains, passed through the oil/water separator, and flowed into the leach well that serviced the building. Contaminants suspected to have entered the floor drains include engine and transmission oil, gasoline, diesel, jet fuel, solvents, hydraulic fluid, and engine coolants.

As-built drawings from 1962 indicate that the room housing the 10,000-gallon AST was converted into a POL laboratory. The 10,000-gallon tank was removed, and a new floor and floor drain system were installed.

In 1985, the Post utility maintenance group replaced the waste line from Building 1168 to the leach well. The workers did not report any stained soil or odors; however, they reportedly felt light-headed when working near the connection to the leach well.

Numerous investigations occurred at the Building 1168 Leach Well before the start of the RI. From 1990 through 1993, investigations including geophysical surveys, surface and subsurface soil sampling, and installation of groundwater monitoring wells were conducted to identify the extent of contamination at the Building 1168 Leach Well.

In 1990, a groundwater survey conducted by the United States Army Environmental Hygiene Agency and a RCRA Facility Assessment conducted by EPA recommended further investigation at the Building 1168 Leach Well. This recommendation was based on the high potential for releases via the leach well and UST.

In 1994, a pilot-scale remediation system was installed around the leach well to determine whether an in situ treatment system was technically feasible in source area soils because the contamination is located mainly in subsurface soils and groundwater. Progress reports have shown that the soil vapor extraction (SVE)/air sparging (AS) system has been very effective as a remediation technology at this source area.

2.2 ENFORCEMENT ACTIVITIES

Fort Wainwright was placed on the CERCLA NPL in August 1990. Consequently, a Federal Facilities Agreement (FFA) was signed by EPA, the Alaska Department of Environmental Conservation (ADEC), and the United States Department of Army in spring 1992. The FFA ensures that appropriate actions are taken to protect public health and the environment in accordance with state and federal laws. The FFA divided Fort Wainwright into five OUs, one of which is OU-2, and outlines the general requirements for investigation and/or remediation of suspected historical hazardous waste source areas associated with Fort Wainwright.

An additional goal of the FFA was to integrate the Army's CERCLA response obligations and RCRA corrective action obligations. Remedial actions implemented will be protective of human health and the environment such that remediation of releases shall obviate the need for further corrective actions under RCRA (i.e., no further corrective action shall be required for source areas).

2.3 HIGHLIGHTS OF COMMUNITY PARTICIPATION

The public was encouraged to participate in the selection of the remedies for OU-2 during a public comment period from May 1 to May 31, 1996. The Fort Wainwright Proposed Plan for Remedial Action, Operable Unit 2 presents more than 11 combinations of options considered by the Army, EPA, and ADEC to address contamination in soil and groundwater at OU-2. The Proposed Plan was released to the public on May 1, 1996, and was sent to 130

known interested parties, including elected officials and concerned citizens. An informational Fact Sheet dated March 1996, providing information about the Army's entire cleanup program at Fort Wainwright, was mailed to the same mailing list.

The Proposed Plan summarizes available information regarding OU-2. Additional materials were placed in two information repositories: one at the Noel Wien Library in Fairbanks and the other at the Fort Wainwright Post Library. An Administrative Record, including all items placed in the information repositories and other documents used in the selection of the remedial actions, was established in Building 3023 on Fort Wainwright. The public is welcome to inspect materials available in the Administrative Record and the information repositories during business hours. The Administrative Record index is provided in Appendix B.

Interested citizens were invited to comment on the Proposed Plan and the remedy selection process by mailing comments to the Fort Wainwright project manager, by calling a toll-free telephone number to record a comment, or by attending and commenting at a public meeting on May 8, 1996, at the Carlson Center Prow Room in Fairbanks. No official comments were received from the public during the comment period. Six people attended the public meeting.

Display advertisements in the Fairbanks Daily News-Miner, published on April 28 and May 1, 5, 6, 7, and 8, 1996, also include information regarding the information repositories, the toll-free telephone line, and an address for submitting written comments.

The Responsiveness Summary in Appendix C summarizes and addresses public comments on the Proposed Plan and the remedy selection process.

2.4 SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

As with many Superfund sites, the problems at Fort Wainwright are complex. OU-2 will be the third OU, following OU-3 and OU-4, at Fort Wainwright to have completed the RI/FS process and to begin remedial action activities. The OU-2 RI and FS were performed in accordance with the RI/FS Management Plan for OU-2. The RI fieldwork was conducted during summer 1993. The final RI, Data Validation Review, Risk Assessment, and FS reports were submitted to EPA and the State of Alaska in January, September, and October 1995 and April 1996, respectively.

This ROD presents the selected remedial action for OU-2 chosen in accordance with CERCLA as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The decision for OU-2 is based on the Administrative Record.

The remedial actions described in this ROD address threats to human health and the environment posed by the contamination at OU-2. The RI/FS has defined potential risks posed by existing groundwater contamination and the potential for migration if remediation does not occur.

3.0 SUMMARY OF SOURCE AREA CHARACTERISTICS

Physical features, hydrogeologic conditions, and the nature and extent of contamination for the DRMO Yard and Building 1168 Leach Well source areas are described briefly in the following sections.

3.1 DEFENSE REUTILIZATION AND MARKETING OFFICE YARD

3.1.1 Physical Features, Hydrogeologic Conditions, and Transport Pathways

The topography at the DRMO Yard source area grades gently to the north and northwest. However, numerous depressions and the presence of silty soil may promote surface water ponding. Surface water runoff from the northeast portion of the source area drains east to a drainage ditch, adjacent to Badger Road, that eventually drains into the Chena River. Surface water runoff from the west half of the source area may enter Channel B, a man-made, riprapped conveyance that parallels the west boundary of the DRMO Yard and connects the Chena and Tanana Rivers. Flow is predominantly toward the Chena River, approximately 1 mile away.

A shallow stream bed located north of the DRMO Yard source area may serve as a channel for surface water runoff to the Chena River during spring breakup and heavy precipitation. A small pond is located 150 feet north of the DRMO Yard; however, the pond does not discharge into a well-defined surface drainage system and the relationship of the pond to groundwater is unknown.

At the DRMO Yard, surface soil can be characterized as fill material, 3 feet to 6 feet deep, consisting of silt, silty sands, and gravels. Subsurface soil at the DRMO Yard is variable and consists of layers of unconsolidated silty sand, gravel, silt, and alluvial deposits of sand and gravel.

Contaminants were detected in surface soil, subsurface soil, sediment, surface water, and groundwater at the DRMO Yard.

Contaminants in surface soil are available to migrate via surface runoff. Although the DRMO Yard is relatively flat, nearby ponds and drainage ditches may receive contaminated runoff from the site. Contaminated runoff from the DRMO Yard would be deposited in sediments. Dissolved contaminants in runoff may be transported through the system of drainage channels and streams in and around the source area to the Chena River. Contaminants in surface soil also can migrate via infiltration to subsurface soil through the downward percolation of precipitation and snowmelt. The extent of contaminant infiltration into subsurface soil depends on the affinity of specific contaminants to adsorb or complex with soil particles. Surface soil contamination also can migrate from the DRMO Yard via particulate transport and volatilization; however, this migration pathway is considered relatively minor because of the six-month snow cover in the Fairbanks area.

Contaminants in subsurface soil are available to migrate downward through percolation to groundwater, caused by infiltration of precipitation and snowmelt. Volatile subsurface soil contaminants also can migrate upward to the surface through volatilization.

Groundwater is encountered at approximately 7.5 feet BGS in an unconfined drinking water aquifer consisting of poorly graded, coarse-grained deposits of sand and gravel. Groundwater generally flows west to northwest toward Channel B, which was constructed as part of the Chena River flood control project that connects the Chena and Tanana Rivers. Changes in flow direction in Channel B occur frequently and are attributable to water level changes in the Chena and Tanana Rivers. This change may result in Channel B recharging groundwater near the DRMO Yard. However, fluctuations in flow direction occur frequently and are attributable to water level changes in the Chena and Tanana Rivers.

Dissolved contaminants in groundwater will migrate through advective forces, influenced by horizontal and vertical groundwater flow gradients. Contaminated groundwater migrating from the DRMO Yard area eventually may be discharged to Channel B or to the drainage channel located north of the DRMO Yard (see Figure 1-3).

Residents in three nearby subdivisions use groundwater as a drinking water source. These private wells are located upgradient of the DRMO Yard, in the same unconfined aquifer as the identified DRMO Yard groundwater contamination. Groundwater generally flows west to northwest, away from these residential areas; however, fluctuations in flow direction occur. The first residential area is approximately 1,400 feet to the north, the second is approximately 1,000 feet to the northeast, and the third is approximately 400 feet to the southeast. A public drinking water well and fire suppression system were installed in 1996 and are in service within the fenced DRMO Yard. This well was installed directly upgradient of the known groundwater solvent contamination plume, at a depth of 102 feet. The solvent plume extends from approximately 7 feet BGS to between 30 feet and 40 feet BGS. Pumping rates at the public drinking water well will be limited until federal Safe Drinking Water Act and State of Alaska Drinking Water Standard maximum contaminant levels (MCLs) are achieved in the contaminant plume to reduce the chance of changing plume characterization and of causing the plume to be drawn within the cone of influence of the potable water well.

3.1.2 Nature and Extent of Contamination

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From 1990 through 1993, investigations including geophysical surveys, surface and subsurface soil sampling, and installation of groundwater monitoring wells were conducted to identify the extent of contamination at the DRMO Yard.

In July 1992, 12 borings and two monitoring wells were installed in an area north of Building 5001 at the DRMO Yard as part of a geotechnical investigation for placing a building foundation. Petroleum hydrocarbons that exceeded ADEC's soil cleanup levels were detected in the soils. Groundwater in one monitoring well contained trichloroethene (TCE) at 8.6 parts per billion (ppb). The state and federal MCL for TCE is 5 ppb. A petroleum UST was associated with the most significant contamination at this source area, which is being remediated under the Two-Party Agreement.

Additional areas of soil and groundwater contamination at the DRMO Yard were investigated through a Preliminary Source Evaluation at the DRMO Yard in September 1992. The evaluation confirmed results from previous investigations conducted in the vicinity of and in the DRMO Yard. Petroleum hydrocarbons and volatile organic compounds (VOCs) associated with fuels and low levels of dioxins/furans, PCBs, and pesticides were detected in soils and groundwater.

In 1993, the OU-2 RI was conducted. The main objectives at the DRMO Yard were to verify information about the nature and extent of surface and subsurface soil and groundwater contamination and to collect information of sufficient quality to be used in a Baseline Risk Assessment. The field investigation consisted of the following tasks: a geophysical survey, surface and subsurface soil sampling, installation of groundwater probes and monitoring wells, collection of groundwater samples, surface water and sediment sampling, and aquifer testing.

Contaminants detected in soil, groundwater, and sediments included organic compounds; i.e., petroleum hydrocarbons, PCBs, polynuclear aromatic hydrocarbons, chlorinated VOCs, dioxins, and pesticides. Several inorganic elements also were detected; i.e., manganese, lead, and arsenic (see Tables 3-1 through 3-5). These contaminants are believed to have come from several on-site sources, including former petroleum USTs; on-site storage of electrical transformers and drums without secondary containment; and the incineration of mattresses, wood furniture, drummed fluids, and plastics in an on-site fire burn pit. These contaminants were compared to existing background levels determined for inorganics in this mineral-rich area, screened for inclusion in the Human Health and Ecological Risk Assessment, and compared to state and federal drinking water standards. Analytes were retained as contaminants of concern if they exceeded background levels, standard risked-based screening criteria for residential exposure assumptions of 1×10^7 for soils and 1×10^6 for groundwater and a hazard index of 0.1, or state and federal MCLs. The levels of inorganics are attributable to elevated background concentration. No floating products (lighter-than-water nonaqueous phase liquids [LNAPLs]) or pure product solvents (denser-than-water nonaqueous phase liquids [DNAPLs]) were identified in the groundwater at the DRMO Yard.

This source was divided into six sub-areas. Sub-areas were used because of the size of the site, and to accurately characterize different types of suspected contaminants based on historical activities or known releases that had occurred. Planned remediation of source areas also is identified by sub-area.

The suspected sources of contaminants in the soil and groundwater at two sub-areas, DRMO2 and DRMO3, are removed USTs. Contaminants include petroleum and fuel products that exceed State of Alaska soil cleanup levels. Groundwater contamination included TCE and tetrachloroethene (PCE) at levels below state and federal MCLs.

Petroleum hydrocarbons in soil and groundwater at sub-area DRMO5 exceeded State of Alaska soil cleanup levels for UST petroleum-contaminated soil. This source area also contained PCBs at concentrations below action levels and one soil boring with dieldrin at a concentration of 1.0 milligrams per liter. A resampling event was conducted at this source area; five samples were collected in the vicinity of the positive dieldrin sample. The results were nondetect or less than screening levels. Because of the type of contaminants and suspected sources of contamination in DRMO2, DRMO3, and DRMO5, these source areas are being remediated under the Two-Party Agreement.

At sub-area DRMO1, two contaminants—PCE and TCE—were detected in the groundwater at levels above their state and federal MCLs of 5 ppb. A well-defined groundwater plume, with

maximum concentrations of 190 ppb and 17 ppb for PCE and TCE, respectively, has been identified. PCE has migrated to the northwest in the direction of the groundwater flow and extends beyond the DRMO Yard boundary, toward Channel B. The extent of the PCE plume is illustrated in Figure 3-1. TCE detected in groundwater and soil is likely a degradation product of PCE. The RI indicates that PCE-saturated soils above the groundwater plume are the source of groundwater contamination; however, soil contaminant levels were not found at concentrations that would result in the identified groundwater contaminant levels. The maximum depth of PCE in groundwater is between 30 feet and 40 feet BGS, with the highest concentration near the soil-water interface (7 feet BGS). This indicates that there is not a pure product DNAPL source in the aquifer. Shallow and fluctuating groundwater conditions contribute to the ongoing release of contaminants to groundwater. This is supported by the highest soil concentration found in the saturated vadose zone, possibly associated with subsurface releases from an abandoned wood stave pipe. Additionally, the groundwater plume isocontours and concentrations are indicative of a discrete defined subsurface source. While soil sampling in an approximate 75-foot grid in this area did not identify the source, the conceptual model supports its presence. The soils will be treated during in situ remediation at this site.

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Benzo(a)pyrene was detected in three "hot spots" at sub-areas DRMO1 and DRMO4 (see Figure 3-1). Approximately 1,900 cubic yards of soil has been impacted by this compound. The source of the benzo(a)pyrene has not been identified, but the compound may be a by-product of the burning and drum storage activities within the "hot spot" areas at the source area. The maximum depth of detection was 2 feet BGS, indicating that the contaminant does not migrate readily through the soil column and is not a threat to groundwater.

At sub-area DRMO4, benzene and PCE in the groundwater exceed state and federal MCLs of 5 ppb (at 7.5 ppb and 51 ppb, respectively) and appear to originate from miscellaneous releases associated with operations occurring along a railroad spur. Soils contaminated with solvent and petroleum compounds are considered the source of groundwater contamination. The groundwater contamination is found at the southwest portion of the railroad spur and is isolated and small in size. Although only one groundwater sample exceeded the state and federal MCLs for PCE and two samples exceeded the state and federal MCLs for benzene, a well-defined groundwater plume is present. The contamination begins at the southwest portion of the railroad spur and extends northwest to the road, from the west gate through the DRMO Yard (see Figure 3-2). Several other compounds were detected at concentrations below action screening levels in the soil and groundwater during the RI.

At sub-area DRMO6, sample detections included petroleum hydrocarbons and low levels of PCBs, dioxins, and inorganic elements; however, no contaminants attributable to activities associated with this sub-area exceeded screening levels. Sediment and surface water sample results will be evaluated further for potential contribution to cumulative ecological risk in the postwide Risk Assessment. No action is planned for this sub-area.

3.1.3 Defense Reutilization and Marketing Office Yard Summary

The petroleum-related contamination, including diesel-range organics (DRO) and gasolinerange organics (GRO) found in soil and groundwater throughout the source area, will be addressed through the Two-Party Agreement, except in areas where they are comingled with other contaminants of concern. The PCE and TCE groundwater contaminant plumes underlie a sizable portion of sub-areas DRMO1 and DRMO4. Groundwater monitoring well contaminant levels in these source areas exceed state and federal MCLs for PCE and TCE at DRMO1 and for PCE and benzene at DRMO4. In addition, "hot spots" of benzo(a)pyrene were found in DRMO1 and DRMO4. A summary of analytical results for the DRMO Yard can be found in Tables 3-1 through 3-5.

3.2 BUILDING 1168 LEACH WELL

3.2.1 Physical Features, Hydrogeologic Conditions, and Transport Pathways

The topography at the Building 1168 Leach Well source area is relatively flat. No surface water drainage pathways are evident. During periods of high precipitation and spring snowmelt, surface water may flow overland to low-lying areas north and southeast of the site. The nearest surface water body, the Chena River, is approximately 1,800 feet to the east. The source area is surrounded by a spruce-hardwood forest to the west, north, and east.

Subsurface soil at the Building 1168 Leach Well source area consists of unconsolidated lenses of interlayered silt, silty sand, and poorly graded sand and gravel, underlain by sandy gravel. Fine-grained silt deposits appear as shallow lenses within silty sand and sand, and are overlain mostly by silty gravel. Silty, gravelly surface soil is predominantly fill material, likely laid down when the Building 1168 parking lot was constructed. Near surface sand and silt are underlain mainly by poorly graded, loose- to medium-density, saturated, sandy gravel that is highly permeable.

Contamination originated from a leach well that received liquids collected in floor drains within Building 1168. Floor drains were connected to a buried pipe that discharged to the leach well at approximately 13 feet BGS. Because of the release mechanism, significant surface soil contamination has not been identified at this source area. Floor drains within the building are suspected of receiving spilled oil and lubricants, fuels, solvents, and engine coolants. Contaminants in subsurface soil are available to migrate vertically toward groundwater with infiltration of precipitation and snowmelt. Lateral spreading of contaminants in subsurface soil has occurred from point sources of contamination because of capillary forces and partitioning exceeding gravitational forces on contaminant movement. Volatile contaminants in subsurface soil also can migrate upward through volatilization from groundwater to soil.

Infiltration and percolation through contaminated soil have been contributors to groundwater contamination. Leaching through contaminated soils caused by fluctuating groundwater levels and the affinity of petroleum products to float also have been major factors in continued groundwater contamination.

Groundwater is the main contaminant migration pathway at the Building 1168 Leach Well source area. Groundwater was encountered between 12 feet to 17 feet BGS and flows to the northwest toward the west boundary of Fort Wainwright and off-post residential areas. No confining layers have been encountered in the source area. Dissolved contaminants in groundwater will migrate through advective forces, influenced by horizontal and vertical groundwater flow gradients.

3.2.2 Nature and Extent of Contamination

Numerous investigations occurred at the Building 1168 Leach Well before the start of the RI.

In 1990, a groundwater survey conducted by the United States Army Environmental Hygiene Agency and an EPA RCRA Facility Assessment recommended further investigation at the Building 1168 Leach Well. This recommendation was based on the high potential for releases from the leach well and UST.

In 1992 and 1993, a Preliminary Source Evaluation was performed and included analytical measurements of surface and subsurface soil and groundwater samples. Petroleum hydrocarbons were detected in subsurface soil samples exceeding the State of Alaska cleanup levels for non-UST petroleum-contaminated soil. TCE and benzene exceeded the state and federal MCLs of 5 ppb. Ethylbenzene and xylenes also were detected in groundwater. The highest analyte concentrations in soil and groundwater were from samples closest to the leach well.

The OU-2 RI was conducted in 1993. The principal objectives of the RI at the Building 1168 Leach Well were to obtain information about the nature and extent of subsurface soil and groundwater contamination. The field investigation consisted of the following tasks: one surface soil sample, numerous subsurface soil samples, installation of two monitoring wells, collection of groundwater samples, aquifer testing, and a Treatability Study.

The RI results confirmed petroleum hydrocarbon and semivolatile organic compound contamination in groundwater, specifically benzene and TCE above state and federal MCLs of 5 ppb. No floating petroleum product (LNAPL) was found in the groundwater at this site. Manganese also exceeded risk-based concentrations but is attributable to background concentrations in this minerally rich area.

Contaminants detected in subsurface soils at the Building 1168 Leach Well include inorganics and petroleum hydrocarbons. Groundwater at the Building 1168 Leach Well contained petroleum hydrocarbons, aromatic and chlorinated VOCs, and inorganic elements. Tables 3-6, 3-7, and 3-8 list the chemicals detected in soil and groundwater at the Building 1168 Leach Well.

In subsurface soil, petroleum hydrocarbon-contaminated soil extends approximately 50 feet radially from the leach well. Contaminant concentrations decrease with increasing horizontal distance from the leach well. The thickness of subsurface soil contamination ranges from the bottom of the leach well to the seasonal low-water table elevation. A smear zone approximately 4 feet thick exists underneath the leach well and is a result of water table level fluctuations. An estimated 1,300 cubic yards of subsurface soil has been impacted by contaminants discharged from the leach well (see Figure 3-3). Table 3-6 lists the analytes detected in soil.

The contaminated soil around the leach well appears to be the source of petroleum hydrocarbons and VOCs detected in groundwater. Contamination from subsurface soil has created a comingled benzene and TCE plume in groundwater 20 feet to 50 feet BGS. The plume extends horizontally downgradient (northwest) approximately 400 feet from the leach

well (see Figure 3-4). Measurable free-floating product on the groundwater has not been detected at the Building 1168 Leach Well.

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An SVE/AS pilot-scale treatability study was initiated in November 1994. Quarterly monitoring results indicate at least a 50% reduction of petroleum-related contaminants in groundwater in the active treatment zone over the last two years. Benzene and TCE were not detected within the active zone. However, exceedances of state and federal MCLs still exist outside the pilot-scale active treatment zone.
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AN	NA	NA	AP-6771	0.005 - 2.2	323/13	p-lsopropyltoluene
0	NA	160,000	AP-6771	0.002 - 0.035	323/7	o-Xylene
NA	NA	NA	AP-6806	0.0082 - 0.023	323/2	n-Propylbenzene
NA	NA	NA	AP-6806	0.006 - 0.63	323/6	n-Bulylbenzene
5	NA	85	AP-6773	0.003 - 0.095	323/212	Methylene chloride
0	NA	160,000	AP-6771	0.005 - 0.077	323/7	m&p-Xylene
0	NA	7,800	AP-6771	0.003 - 0.023	323/5	Ethylbenzene
0	NN	3,100	AP-6806	0.0092 - 0.016	323/2	Cumene (isopropylbenzene)
0	NA	22	AP-6771	0.006 - 0.008	323/4	Benzene
0	NA	7,800	AP-6806	0.017 - 0.42	323/30	Acctone
0	NA	31	AP-6773	0.006 - 5.6	323/18	1,3,5-Trimethylbenzene
ð	NA	95	AP-6773	0.004 - 2.8	323/9	1,2,4-Trimethylbenzene
						Volatile Organic Compounds
15	NN	50	AP-6773	0.25 - 690	322/66	Gusoline-range organies ^e
37	NA	100	AP-6738	0.0038 - 9,600	328/163	Diesel-range organics ^b
						Petroleum Hydrocarbons
Number of Samples Exceeding RBCs	Background Concentration	Risk-Based Screening Concentration ^a	Location of Maximum Concentration	Range of Detected Concentrations	Number of Samples Analyzed/Detected	Analyte
		MPLE RESULTS	FACE SOIL SAM RCE AREA NIT 2 T, ALASKA	SUMMARY OF SURFACE AND SUBSURFACE SOIL SA DRMO YARD SOURCE AREA OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA (mg/kg)	SUMMARY OF	
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	UMMARY OF 9	SUMMARY OF SURFACE AND SUBSURFACE SOIL SAMPLE RESULTS DRMO YARD SOURCE AREA OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA (mg/kg)	FACE SOIL SAM RCE AREA NIT 2 T, ALASKA	PLE RESULTS		
Analyte Anal	Number of Samples Analyzed/Detected	Range of Detected Concentrations	Location of Maximum Concentration	Risk-Based Screening Concentration ^a	Background Concentration	Number of Samples Exceeding RBCs
	323/2	0.011 - 0.220	AP-6806	780	NA	0
tert-Butylbenzene	323/1	0.0034	AP-6796	780	ΥN	0
Tetrachloroethene	323/24	0.0025 - 0.15	AP-6803	12	VN	0
Toluene	323/11	0.0024 - 0.09	AP-6771	16,000	٧N	0
Semivolatile Organic Compounds						
2-Methylnaphthalcne	328/8	0.057 - 13	AP-6773	ΥN	NA	NA
Acenaphthene	328/2	0.130 - 0.170	AP-6763	4,700	VN	0
Anthracene	328/4	0.050 - 0.350	AP-6796	23,000	NA	0
Benz.o(a)anthracene	328/7	0.045 - 0.320	AP-6758	0.88	N A	0
Benzo(a)pyrene	328/7	0.049 - 0.350	AP-6758	0.088	NA	9
Benzo(b)Auoranthene	328/9	0.048 - 0.350	AP-6758	0.88	NA	0
Benzo(g,h,i)perylene	328/7	0.046 - 0.370	AP-6747	٧N	NA	VN
Benzo(k)fluoranthenc	328/7	0.052 - 0.330	AP-6758	8.8	¥N	-
bis(2-ethylhexyl)-plk(halate	328/28	0.029 - 1.600	AP-6745	46	NA	
Butyl benzyl phthalate	328/7	0.150 - 0.710	AP-6798	16,000	NA	
Chrysene	328/8	0.046 - 0.390	AP-6758	88	NA	

Page 3 of 6

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		Table 3-1				
	SUMMARY OF SU	SURFACE AND SUBSURFACE SOIL SAMPLE RESULTS DRMO YARD SOURCE AREA OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA (mg/kg)	FACE SOIL SAM RCE AREA NT 2 T, ALASKA	PLE RESULTS		
Analyte	Number of Samples Analyzed/Detected	Range of Detected Concentrations	Location of Maximum Concentration	Risk-Based Screening Concentration ^a	Background Concentration	Number of Samples Exceeding RBCs
di-n-Butyl phthalate	327/133	0.024 - 2.600	004	N N	٧N	A N
Dibenzo(a,h)anthracene	328/2	0.052 - 0.084	AP-6758	0.088	VN	0
Fluoranthene	328/11	0.058 - 0.660	AP-6758	3,100	NA	0
Fluorenc	328/4	0.230 - 1.0	AP-6738	3,100	V N	0
Indeno(1,2,3-ed)pyrene	328/5	0.052 - 0.2	AP-6758	0.88	NA	0
Naplithalene	651/10	0,004-4.7	AP-6738	3,100	NA	0
Phenantlirene	328/16	0.059 - 0.950	AP-6773	NA	۷N	AN NA
Pyrenc	328/9	0.091 - 0.640	AP-6758	2,300	NA	0
Other Organic Compounds			-			
Total organic carbon	331/331	290 - 40,300	AP-6736	NA	NA	٩N
PCBs and Organochlorine Pesticides	-		-			
4,4'-Dichlorodiphenyldichloroethane (DDD)	12/122	0.0024 - 0.039	AP-6751	2.7	ΨN N	0
4,4'-Dichlorodiphenyldichloroethene (DDE)	331/38	0.0016 - 0.059	AP-6739	6.1	NA .	0
4,4'-Dichtorodiphenyltrichlorocthane (DDT)	331/116	0.0013 - 1.1	AP-6747	1.9	۷N	0

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Page 4 of 6

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		Table 3-1			1	
	SUMMARY OF SU	SURFACE AND SUBSURFACE SOIL SAMPLE RESULTS DRMO YARD SOURCE AREA OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA (mg/kg)	tFACE SOIL SAM RCE AREA NIT 2 IT, ALASKA	PLE RESULTS		
Analyte	Number of Samples Analyzed/Detected	Range of Detected Concentrations	Location of Maximum Concentration	Risk-Based Screening Concentration ⁴	Background Concentration	Number of Samples Exceeding RBCs
Aroclar 1254	331/2	0.026 - 0.430	AP-6730	0.083	AN	2
Aldrin	1/166	0.00065	AP-6806	0.038	A N	0
Arocher 1260	331/55	0.017 - 1.3	005	0.083	NA	25
beta-BHC	331/4	0.00057 - 0.0016	AP-6797	0.35	NA	0
Dieldrin	331/4	0.012 - 1.0	AP-6794	0.04	٧N	13
Endosulfan I	331/1	0.016	AP-6796	470	NA	0
Endosulfan II	331/5	0.00078 - 0.016	AP-6758	470	NA	0
Endrin	331/3	0.0097 - 0.014	AP-6794	23	NA	Ō
Endrin aldehyde	331/1	0.0086	AP-6803	NA	ΨN	ΥN
Endrin ketone	331/5	0.0015 - 0.027	SP-6796	NA	V N	ΥN
gamma-BHC (Lindane)	331/6	0.0042 - 0.130	SP-6763	0.49	AA	0
Heptachlor epoxide	331/1	0.019	AP-6796	0.07	V N	0
Methoxychlor	331/1	0.0048	AP-6793	390	٧N	0

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Page 5 of 6

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|                       |                                        | Table 3-1                                                                                                                    |                                                 |                                                       |                             |                                        |
|-----------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------|
|                       | SUMMARY OF SUR                         | SURFACE AND SUBSURFACE SOIL SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(mg/kg) | FACE SOIL SAM<br>RCE AREA<br>NIT 2<br>T, ALASKA | PLE RESULTS                                           |                             |                                        |
| Analyte               | Number of Samples<br>Analyzed/Detected | Kange of Detected<br>Concentrations                                                                                          | Location of<br>Maximum<br>Concentration         | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samplet<br>Exceeding RBCs |
| Metals                |                                        |                                                                                                                              |                                                 |                                                       |                             |                                        |
| Arsenic               | 332/318                                | 0.79 - 72.4                                                                                                                  | AP-6744                                         | 0.37                                                  | 29                          | 318                                    |
| Barium                | 16E/16E                                | 18 - 381                                                                                                                     | AP-6750                                         | 5,500                                                 | 234                         | 0                                      |
| Cadmium               | 331/84                                 | 0.48 - 8.1                                                                                                                   | AP-6782                                         | 39                                                    | VN                          | 0                                      |
| Chromium              | 331/330                                | 2.7 - 46.1                                                                                                                   | AP-6742                                         | 78,000                                                | 46                          | 0                                      |
| Lead                  | 336/332                                | 1.7 - 996                                                                                                                    | AP-6735                                         | 400                                                   | NA                          | e                                      |
| Manganese             | 331/330                                | 29.1 - 2,420                                                                                                                 | AP-6780                                         | 390                                                   | 318                         | 33                                     |
| Mercury               | 331/22                                 | 0.07 - 2.3                                                                                                                   | AP-6732                                         | 23                                                    | QN                          | 0                                      |
| Selenium              | 331/214                                | 0.051 - 4.1                                                                                                                  | AP-6750                                         | 390                                                   | 0.17                        | ¢                                      |
| Silver                | 331/12                                 | 0.55 - 5.3                                                                                                                   | AP-6778                                         | 390                                                   | 1.10                        | 0                                      |
| Thallium              | 331/6                                  | 0.13 - 9.8                                                                                                                   | AP-6776                                         | ٧N                                                    | QN                          | ΥN<br>N                                |
| Dioxins/Furans (pg/g) |                                        |                                                                                                                              |                                                 |                                                       |                             |                                        |
| 2,3,7,8-TCDD TEQ      | 267/244                                | 0,0008-97.356                                                                                                                | AP-6734                                         | 4.1                                                   | NA                          | 6                                      |

The RBC used for m&p-xylene is the RBC for xylenes mixed. No RBC for p-xylene in soil exists. The RBC used for chromium is the one for trivalent chromium. The RBC used for arsenic is the one for the carcinogenic form of arsenic. Note:

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Table 3-1 (Cont.)

Page 6 of 6

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- <sup>a</sup> Risk-based screening concentration values are based on a 1 x 10<sup>-6</sup> residential direct contact risk or an HQ=1 (EPA, Region III, July 11, 1994, Risk Based Concentration Tables).
  - b ADEC soil cleanup matrix score Level A for DRO is 100 mg/kg.
    - c ADEC soil cleanup matrix score Level A for GRO is 50 mg/kg.

Key:

- ADEC = Alaska Department of Environmental Conservation.
  - BHC = Benzenchexachloride.
- DRMO = Defense Reutilization and Marketing Office,
  - DRO = Dicsel-range organics.
    - GRO = Gasoline-range organics. μg/kg = Micrograms per kilogram. mg/kg = Milligrams per kilogram. NA = Not applicable.
- - - ND = Not detected.
- PCBs = Polychlorinated biphenyls.
- pg/g = Picograms per gram. RHCs = Risk-based concentrations.
- fCDD = Tetrachlorodibenzo-p-dioxin.
  - TEQ = Toxicity equivalency.

Page 1 of 2

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|                                    |                                        | Table 3-2                                                                                                            | 3-2                                                            |                                                       |                             |                                        |
|------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------|
|                                    | SUM                                    | SUMMARY OF SEDIMENT SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(mg/kg) | NT SAMPLE RES<br>OURCE AREA<br>E UNIT 2<br>IGHT, ALASKA<br>kg) | STUD                                                  |                             |                                        |
| Analyte                            | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations                                                                                  | Location of<br>Maximum<br>Concentration                        | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding RBCs |
| Petroleum Mydrocarbons             |                                        |                                                                                                                      |                                                                |                                                       |                             |                                        |
| Diescl-range organics <sup>b</sup> | 6/6                                    | 63 - 1,000                                                                                                           | 001                                                            | 100                                                   | NA                          | 5                                      |
| Volatile Organic Compounds         |                                        |                                                                                                                      |                                                                |                                                       |                             |                                        |
| Chloroform                         | 1/6                                    | 0.008                                                                                                                | 008                                                            | 100                                                   | NA                          | 0                                      |
| Other Organic Compounds (%)        |                                        |                                                                                                                      |                                                                |                                                       |                             |                                        |
| Total organic carbon               | 7/7                                    | 1 - 9.35                                                                                                             | 007                                                            | AN                                                    | NA                          | YN                                     |
| PCBs and Organochlorine Pesticides | les<br>I                               |                                                                                                                      |                                                                |                                                       |                             |                                        |
| Aroclor 1260                       | 6/3                                    | 7 - 60                                                                                                               | 007                                                            | 0.083                                                 | NA                          | £                                      |
| Metals                             | ·<br>·<br>·<br>·                       |                                                                                                                      |                                                                |                                                       |                             |                                        |
| Arsenic                            | 6/6                                    | 8 - 38                                                                                                               | 001                                                            | 0.37                                                  | ΝA                          | 6                                      |
| Barium                             | 6/6                                    | 139 - 387                                                                                                            | 10                                                             | 5,500                                                 | NA                          | 0                                      |
| Cadmium                            | 9/4                                    | 2 - 6                                                                                                                | 001                                                            | 39                                                    | NA                          | 0                                      |
| Chromium                           | 6/6                                    | 18 - 49                                                                                                              | 007                                                            | 78,000                                                | AN .                        | 0                                      |
| Lead                               | 6/6                                    | 10 - 1,390                                                                                                           | 007                                                            | 400                                                   | ΥN                          | 7                                      |
| Manganese                          | 6/6                                    | 251 - 5,140                                                                                                          | 002                                                            | 390                                                   | AN                          | 2                                      |
|                                    |                                        |                                                                                                                      |                                                                |                                                       |                             |                                        |

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Page 2 of 2

|                       |                                        | Table 3-2                                                   | e 3-2                                   |                                                       |                                    |                                        |
|-----------------------|----------------------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|------------------------------------|----------------------------------------|
|                       | SUMN                                   | SUMMARY OF SEDIMENT SAMPLE RESULTS<br>DRMO YARD SOURCE AREA | OURCE AREA                              | ULTS                                                  |                                    |                                        |
|                       |                                        | OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(mg/kg)       | Æ UNIT 2<br>IGHT, ALASKA<br>/kg)        |                                                       |                                    |                                        |
| Analyte               | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations                         | Location of<br>Maximum<br>Concentration | Risk-Based<br>Screening<br>Concentration <sup>8</sup> | <b>Background</b><br>Concentration | Number of<br>Samples<br>Exceeding RBCs |
| Dioxins/Furans (pg/g) |                                        |                                                             |                                         |                                                       |                                    |                                        |
| 2,3,7,8-TCDD TEQ      | 6/6                                    | 0.0043 - 71.98                                              | 007                                     | 4.10                                                  | NA                                 |                                        |

Note: The RBC used for chromium is the one for trivalent chromium. The RBC used for arsenic is for the carcinogenic form of arsenic.

22 Tables). Risk-based screening concentration risk values are based on a 1  $\times$  10<sup>-6</sup> residential direct contact or an HQ = 1 (EPA, Region III, July 11, 1994, Risk-Based Concentration

σ ADEC soil cleanup matrix score for Level A cleanup of DRO is 100 mg/kg.

Key:

- ADEC IJ Alaska Department of Environmental Conservation.
- DRO ł
- Diesel-range organics.
- DRMO =Defense Reutilization and Marketing Office.
- Micrograms per kilogram.
- μg/kg =
- mg/kg = Milligrams per kilogram.
- NA # Not applicable.
- PCBs = Polychlorinated biphenyls.
- Picograms per gram.
- pg/g = RBCs =
- Risk-based concentrations.
- TCDD = Tetrachlorodibenzo-p-dioxin.
- TEQ = Toxicity equivalency.

30

Page 1 of 4

|                            |                                               |                                     | Table 3-3                                                                                               |                                                                                                                                        |                                                       |                             |                                           |
|----------------------------|-----------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                            | SUMMAR                                        | Y OF GROUNDW/<br>DRM<br>FORT        | NDWATER MONITORING WEI<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | SUMMARY OF GROUNDWATER MONITORING WELL SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | t RESULTS                                             |                             |                                           |
| Analyte                    | Number of<br>Samples<br>Analyzed/<br>Detected | Range of Detected<br>Concentrations | Location of<br>Maximum<br>Concentration                                                                 | Alaska Water Quality<br>Criteria<br>(18 AAC 70/MCL 18<br>AAC 80)                                                                       | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCI. |
| Petroleum Ilydrocarbons    |                                               |                                     |                                                                                                         |                                                                                                                                        |                                                       |                             |                                           |
| Diesel-range organics      | 23/16                                         | 130 - 23,000                        | AP-5825                                                                                                 | NA/NA                                                                                                                                  | AN                                                    | AN                          | VN                                        |
| Gasoline-range organics    | 31/8                                          | 50 - 940                            | AP-5825                                                                                                 | NA/NA                                                                                                                                  | <b>V</b> N                                            | AN                          | AN                                        |
| Volatile Organic Compounds |                                               | 2                                   |                                                                                                         |                                                                                                                                        |                                                       |                             |                                           |
| 1.2,4-Trimethylbenzene     | 31/5                                          | 2.9 - 460                           | AP-5825                                                                                                 | 100/70                                                                                                                                 | £                                                     | AN                          |                                           |
| 1,3,5-Trimethylbenzene     | 31/5                                          | 3.7 - 130                           | AP-5825                                                                                                 | 100/NA                                                                                                                                 | 2.4                                                   | NA                          | AN                                        |
| Chloroform                 | 31/1                                          | 1.9                                 | AP-6802                                                                                                 | 1,240/100                                                                                                                              | 0.15                                                  | NA                          | •                                         |
| cis-1,2-Dichloroethene     | 31/1                                          | 7.3                                 | AP-5764                                                                                                 | 11,600/70                                                                                                                              | 61                                                    | NA                          | 0                                         |
| Cumene                     | 31/5                                          | 1.6 - 14                            | AP-5825                                                                                                 | NA/NA                                                                                                                                  | 1,500                                                 | NA                          | ΨN                                        |
| Ethylbenzene               | 31/3                                          | 2.6 - 3.7                           | AP-5825                                                                                                 | 0.2/700                                                                                                                                | 1,300                                                 | NA                          | •                                         |
| m&p-Xylene                 | 31/3                                          | 3.2 - 92                            | AP-5825                                                                                                 | 0.2/10,000                                                                                                                             | 520                                                   | NA                          | •                                         |
| Methyl ethyl ketone        | 31/2                                          | 6.4 - 12                            | AP-5825                                                                                                 | NA/NA                                                                                                                                  | 22,000                                                | NA                          | AN                                        |
| Methylene chloride         | 31/12                                         | 1 - 1.9                             | AP-6799                                                                                                 | NA/5                                                                                                                                   | 4.1                                                   | NA                          | •                                         |
| n-Butylbenzene             | 31/1                                          | 3.3                                 | AP-6806                                                                                                 | NA/NA                                                                                                                                  | NA                                                    | NA                          | AN<br>N                                   |
| n-Propylbenzene            | 3/31                                          | 1.7 - 16                            | AP-5825                                                                                                 | NA/NA                                                                                                                                  | NA                                                    | NA                          | AN                                        |

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|                                | SUMMAR                                        | SUMMARY OF GROUNDWATER MONITORING W<br>DRMO YARD SOURCE ARE<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASI<br>(µg/L) | NDWATER MONITORING WEL<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(##/L) | RING WELL SAMPLE RESULTS<br>CE AREA<br>IT 2<br>, ALASKA          | E RESULTS                                             |                             |                                          |
|--------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|------------------------------------------|
| Apalyte                        | Number of<br>Samples<br>Analyzed/<br>Defected | Range of Detected<br>Concentrations                                                                                | Location of<br>Maximum<br>Concentration                                                                 | Alaska Water Quality<br>Criteria<br>(18 AAC 70/MCL 18<br>AAC 80) | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCL |
| Naphthalene                    | 54/6                                          | 14 - 530                                                                                                           | AP-5825                                                                                                 | 0.1/NA                                                           | 1,500                                                 | NA                          | NA                                       |
| o-Xylene                       | 31/1                                          | 170                                                                                                                | AP-5825                                                                                                 | 0.2/10,000                                                       | 1,400                                                 | NN                          |                                          |
| p-lsopropyltoluene             | 31/2                                          | 3.5 - 19                                                                                                           | AP-5825                                                                                                 | NA/NA                                                            | NA                                                    | NA                          |                                          |
| sec-Butylbenzenc               | 31/7                                          | 1.6 - 11                                                                                                           | AP-5825                                                                                                 | NA/NA                                                            | 61                                                    | NA                          |                                          |
| Tetrachloroethene (PCE)        | 31/6                                          | 1.3 - 190                                                                                                          | AP-6803                                                                                                 | 840/5                                                            | 1.1                                                   | NA                          |                                          |
| trans-1,2-Dichloroethene       | 3/31                                          | 1.2 - 1.7                                                                                                          | AP-6804                                                                                                 | 11,600/100                                                       | 120                                                   | NA                          |                                          |
| Trichloroethene (TCE)          | 5/3 1                                         | 4.8 - 17                                                                                                           | AP-6804                                                                                                 | 5/5                                                              | 1.6                                                   | NA                          |                                          |
| Trichlorofluoromethane         | 31/1                                          | 6.3                                                                                                                | AP-5764                                                                                                 | NA/NA                                                            | 1,300                                                 | NA                          |                                          |
| Semivolatile Organic Compounds |                                               |                                                                                                                    |                                                                                                         |                                                                  |                                                       |                             |                                          |
| 2-Methylnaphlhalene            | 23/5                                          | 11 - 200                                                                                                           | AP-5825                                                                                                 | 0.1/NA                                                           | NA                                                    | NA                          |                                          |
| Benzoie acid                   | 23/1                                          | 61                                                                                                                 | AP-6803                                                                                                 | NA/NA                                                            | 150,000                                               | NA                          |                                          |
| Fluorene                       | 23/1                                          | 2                                                                                                                  | AP-6803                                                                                                 | 0.1/NA                                                           | 1,500                                                 | NA                          |                                          |
| Naphthalene                    | 54/6                                          | 14 - 530                                                                                                           | AP-5825                                                                                                 | 0.1/NA                                                           | 1,500                                                 | NA                          |                                          |
| Organophosphorus l'esticides   |                                               |                                                                                                                    |                                                                                                         |                                                                  |                                                       |                             |                                          |
| Disulfoton                     | 23/3                                          | 0.14 - 1.3                                                                                                         | AP-5826                                                                                                 | NA/NA                                                            | 1.5                                                   | NA                          |                                          |

Page 3 of 4

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|                       |                                               |                                     | Table 3-3                                                                                               |                                                                                                                                        |                                                       |                                    |                                          |
|-----------------------|-----------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------|
|                       | SUMMAR                                        | OF GROUNDW.<br>DRM<br>FORT          | NDWATER MONITORING WEI<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | SUMMARY OF GROUNDWATER MONITORING WELL SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | E RESULTS                                             |                                    |                                          |
| Analyte               | Number of<br>Samples<br>Analyzed/<br>Detected | Range of Detected<br>Concentrations | Location of<br>Maximum<br>Concentration                                                                 | Alaska Water Quality<br>Criteria<br>(18 AAC 70/MCL 18<br>AAC 80)                                                                       | Risk-Based<br>Screening<br>Concentration <sup>R</sup> | <b>Background</b><br>Concentration | Number of<br>Samples<br>Exceeding<br>MCL |
| Metals                |                                               |                                     |                                                                                                         |                                                                                                                                        |                                                       |                                    |                                          |
| Arsenic (dissolved)   | 23/13                                         | 6 - 24                              | AP-5825                                                                                                 | 48/50                                                                                                                                  | 0.038                                                 | 56                                 | 0                                        |
| Arsenic (total)       | 23/13                                         | 6 - 23                              | AP-5825                                                                                                 | 48/50                                                                                                                                  | 0.038                                                 | 230                                | 0                                        |
| Barium (dissolved)    | 23/20                                         | 100 - 310                           | AP-5825                                                                                                 | 1,000/2,000                                                                                                                            | 2,600                                                 | 520                                | 0                                        |
| Barium (total)        | 23/20                                         | 100 - 320                           | AP-5825                                                                                                 | 1,000/2,000                                                                                                                            | 2,600                                                 | 2,000                              | 0                                        |
| Lead (dissolved)      | 23/1                                          | 6                                   | AP-6802                                                                                                 | NA/15                                                                                                                                  | NA                                                    | 27                                 | 0                                        |
| Manganese (dissolved) | 23/20                                         | 250 - 13,000                        | AP-5825                                                                                                 | 50 <sup>b</sup>                                                                                                                        | 180                                                   | 1,900                              | 20                                       |
| Manganese (total)     | 23/20                                         | 270 - 13,000                        | AP-5825                                                                                                 | 50 <sup>b</sup>                                                                                                                        | 180                                                   | 1,900                              | 20                                       |
| Dioxins/Furans (pg/L) |                                               |                                     |                                                                                                         |                                                                                                                                        |                                                       |                                    |                                          |
| 2,3,7,8-TCDD TEQ      | 20/19                                         | 0.33 - 8.4183                       | AP-5765                                                                                                 | 10/20                                                                                                                                  | 0.43                                                  | NA                                 | 0                                        |

Note: The RBC used for m&p-xylene is the one for p-xylene. This RBC is the more conservative of the two. The RBC used for arsenic is for the carcinogenic form of arsenic.

<sup>a</sup> Risk-based screening concentration values are based on a  $1 \times 10^{-6}$  residential direct contact risk or HQ = 1 (EPA, Region III, July 11, 1994, Risk Based Concentration Tables). b Secondary MCL.

Table 3-3 (Cont.)

Key:

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- AAC = Alaska Administrative Code. Defense Reutilization and Marketing Office. Maximum contaminant level. Micrograms per liter.
- MCL = Maximum contaminant level.
   μg/L = Micrograms per liter.
   NA = Not applicable.
   pg/L = Picograms per liter.
   TCDD = Tetrachlorodibenzo-p-dioxin.
   TEQ = Toxicity equivalency.

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Page 4 of 4

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|              |                            |                                        |                                                 | Table 3-4                                                                                              |                                                                                                                  |                                                       |                             |                                           |
|--------------|----------------------------|----------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
| <u> </u>     |                            | SUMM                                   | SUMMARY OF GROUND<br>DRMO Y/<br>OPE<br>FORT WAI | GROUNDWATER PROBE SAM<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(4g/L) | GROUNDWATER PROBE SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>ORT WAINWRIGHT, ALASKA<br>(#g/L) | 8                                                     | :                           |                                           |
|              | Analyte                    | Number of Samples<br>Analyzed/Detected | Range of Defected<br>Concentrations             | Location of<br>Maximum<br>Concentration                                                                | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80)                                                 | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Let          | Petroleum Ilydrocarbons    |                                        |                                                 |                                                                                                        |                                                                                                                  |                                                       |                             |                                           |
| ă            | Dicsel-tange organics      | 94/65                                  | 120 - 41,000                                    | P34                                                                                                    | NA/NA                                                                                                            | ٧N                                                    | ΝA                          | ۷N                                        |
| Ğ            | Gasoline-range organics    | 89/19                                  | 70 - 28,000                                     | P34                                                                                                    | NA/NA                                                                                                            | NA                                                    | ΝA                          | ΥN                                        |
| <sup>م</sup> | Volatile Organic Compounds |                                        |                                                 |                                                                                                        |                                                                                                                  |                                                       |                             |                                           |
| 1,2          | 1,2,4-Trimethylbenzene     | 11/66                                  | 1.3 - 340                                       | P35                                                                                                    | 100/NA                                                                                                           | ¢,                                                    | ΝA                          | <b>V</b> N                                |
| 1,2          | 1,2-Dichlorobenzene        | 161/2                                  | 19 - 38                                         | PIS                                                                                                    | 763/600                                                                                                          | 370                                                   | NA                          | 0                                         |
|              | 1,2-Dichloroethane         | 1/£6                                   | 1.5                                             | 61d                                                                                                    | 5/5                                                                                                              | 0.12                                                  | NA                          | 0                                         |
| -            | 1,3,5-Trimethylbenzene     | 93/10                                  | 1.3 - 130                                       | P35                                                                                                    | V/001                                                                                                            | 2.4                                                   | NA                          | <b>V</b> N                                |
| 1.3          | 1,3-Dichlorobenzene        | 161/1                                  | 1.5                                             | D9d                                                                                                    | 763/NA                                                                                                           | 540                                                   | NA                          | AN                                        |
| - 4,         | 1,4-Dichlorohenzene        | 161/2                                  | 6 - 12                                          | P15                                                                                                    | 763/75                                                                                                           | 0.44                                                  | NA                          | 0                                         |
| ¥            | Acutone                    | 7/£6                                   | 3.1 - 79                                        | P35                                                                                                    | NA/NA                                                                                                            | 3,700                                                 | A N                         | VN                                        |
| Å.           | Benzene                    | 93/6                                   | 1.4 - 7.5                                       | P05                                                                                                    | 0.2/5.0                                                                                                          | 0.36                                                  | NA                          | <u> </u>                                  |
| บิ           | Chlorobenzene              | 1/66                                   | 2.6                                             | P15                                                                                                    | NA/100                                                                                                           | 39                                                    | ۷N                          | •                                         |
| ປົ           | Chloroform                 | 93/27                                  | 1.1 - 8                                         | MW2                                                                                                    | 1,240/100                                                                                                        | 0.15                                                  | <b>N</b> A                  | 0                                         |
| cis          | cis-1,2-Dichloroethene     | 6/66                                   | 1.2 - 2.3                                       | . P59                                                                                                  | 116,000/70                                                                                                       | - 61                                                  | NA                          | •                                         |
| บี้          | Cumene                     | 93/10                                  | 1.4 - 14                                        | P34                                                                                                    | NA/NA                                                                                                            | 1,500                                                 | NA                          | <b>N</b> A                                |

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Page 1 of 5

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| Key at end of table. | Trichlorofluorome |

|                           |                                        |                                                                                                                     | Table 3-4                                                                                                |                                                                  |                                                       |                             |                                           |
|---------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                           | SUMMA                                  | SUMMARY OF GROUNDWATER PROBE SAMPL<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | F GROUNDWATER PROBE SAM<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | SAMPLE RESULTS<br>REA<br>ASKA                                    | S.                                                    |                             |                                           |
| Analyte                   | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations                                                                                 | Location of<br>Maximum<br>Concentration                                                                  | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80) | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Dichlorodifluoromethane   | 93/2                                   | 1.7 - 18                                                                                                            | P07                                                                                                      | 11,000/NA                                                        | 066                                                   | NA                          | NA                                        |
| Ethylbenzene              | 93/7                                   | 1.3 - 6                                                                                                             | P27                                                                                                      | 0.2/700                                                          | 1,300                                                 | NA                          | 0                                         |
| m&p-Xylene                | 93/8                                   | 1.6 - 87                                                                                                            | 56d                                                                                                      | 0.2/10,000                                                       | 520                                                   | NA                          | 0                                         |
| Methyl ethyl ketone (MEK) | 93/21                                  | 2 - 110                                                                                                             | Trip Blank                                                                                               | NA/NA                                                            | 22,000                                                | NA                          | NA                                        |
| Methylene chloride        | 93/26                                  | 1 - 8,8                                                                                                             | P35                                                                                                      | NA/S                                                             | 4.1                                                   | NA                          | 2                                         |
| n-Butylbenzene            | 93/1                                   | 30                                                                                                                  | P34                                                                                                      | NA/NA                                                            | NA                                                    | NA                          | NA                                        |
| n-Propylbenzene           | 8/66                                   | 1.6 - 32                                                                                                            | P34                                                                                                      | NA/NA                                                            | ٨N                                                    | NA                          | NA                                        |
| x-Xylene                  | 7/26                                   | 1.2 - 150                                                                                                           | 264                                                                                                      | 0,2/10,000                                                       | NA                                                    | NA                          | 0                                         |
| p-lsopropyltoluene        | 93/10                                  | 1.5 - 200                                                                                                           | P34                                                                                                      | NA/NA                                                            | NA                                                    | NA                          | NA                                        |
| sec-Butylbonzene          | 93/7                                   | 1.2 - 25                                                                                                            | P34                                                                                                      | NANA                                                             | 61                                                    | NA                          | NA                                        |
| Styrene                   | 93/2                                   | 1.7 - 69                                                                                                            | P57                                                                                                      | NA/100                                                           | 1,600                                                 | NA                          | 0                                         |
| Tetrachloroethene (PCE)   | 93/20                                  | 1.1 - 65                                                                                                            | 564                                                                                                      | 840/5                                                            | 11                                                    | NA                          | ш                                         |
| Toluene                   | 2/56                                   | 1.5 - 3.7                                                                                                           | P61                                                                                                      | 0.2/1,000                                                        | 750                                                   | NA                          | 0                                         |
| trans-1,2-Dichloroethene  | 9/66                                   | 1.3 - 4.4                                                                                                           | P43                                                                                                      | 11,600/100                                                       | 120                                                   | NA                          | 0                                         |
| Trichloroethene (TCE)     | 93/19                                  | 1.4 ~ 9.1                                                                                                           | l sd                                                                                                     | 5/5                                                              | 1.6                                                   | NA                          | 12                                        |
| Trichlorofluoromethane    | 93/2                                   | 1.6 - 4,1                                                                                                           | P12                                                                                                      | NA/NA                                                            | 1,300                                                 | NA                          | 0                                         |

Page 2 of 5

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|                                |                                        |                                          | Table 3-4                                                                                                |                                                                                                                     |                                                       |                             | Page 3 of 5                               |
|--------------------------------|----------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                                | SUMMARY OI                             | RY OF GROUND<br>DRMO Y<br>OPE<br>FORT WA | r GROUNDWATER PROBE SAM<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(μg/L) | F GROUNDWATER PROBE SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(μg/L) | 50                                                    |                             |                                           |
| Analyte                        | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations      | Location of<br>Maximum<br>Concentration                                                                  | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80)                                                    | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Numher of<br>Samples<br>Exceeding<br>MCLs |
| Semivolatile Organic Compounds |                                        |                                          |                                                                                                          |                                                                                                                     |                                                       |                             |                                           |
| 2-Methylnaphthalene            | 68/9                                   | 1 - 240                                  | P35                                                                                                      | 0.1/NA                                                                                                              | NA                                                    | NA                          | ΥN                                        |
| Dibenzofuran                   | 68/1                                   | 2                                        | P34                                                                                                      | NA/NA                                                                                                               | 150                                                   | AN                          | NA                                        |
| Dicthylphthalate               | 68/1                                   | 10                                       | P34                                                                                                      | NA/NA                                                                                                               | 29,000                                                | NA                          | ŇA                                        |
| Fluorenc                       | 68/2                                   | 4 - 6                                    | P34                                                                                                      | 0.1/NA                                                                                                              | 1,500                                                 | <b>NA</b>                   | NA                                        |
| Naphthalcne                    | 161/20                                 | 1.6 - 410                                | 564                                                                                                      | 0.1/620                                                                                                             | 1,500                                                 | AN                          | 0                                         |
| Phenanthrene                   | 68/1                                   | 4                                        | P34                                                                                                      | 0.I/NA                                                                                                              | NA                                                    | NA                          | NA                                        |
| Organophosphorus Pesticides    |                                        |                                          |                                                                                                          |                                                                                                                     |                                                       |                             |                                           |
| Diazinon                       | 68/1                                   | 0.27                                     | P37                                                                                                      | NA/NA                                                                                                               | 33                                                    | NA                          | NA                                        |
| Dísulfoton                     | 68/2                                   | 0.11 ~ 0.53                              | P46                                                                                                      | NA/NA                                                                                                               | 1.5                                                   | NA                          | AN<br>N                                   |
| Najed                          | 68/2                                   | 0.18 - 0.87                              | P60                                                                                                      | NA/NA                                                                                                               | 52                                                    | NA                          | ΝA                                        |
| Ronnel                         | 68/1                                   | 1,100                                    | P27                                                                                                      | VN/NA                                                                                                               | 1,800                                                 | NA                          | ΝA                                        |
| Metais                         |                                        |                                          |                                                                                                          |                                                                                                                     |                                                       |                             |                                           |
| Arsenic (dissolved)            | 67/34                                  | 5 - 39                                   | P39                                                                                                      | 48/50                                                                                                               | 0.038                                                 | 56                          | 0                                         |
| Arsenic (total)                | 68/35                                  | 6 - 43                                   | P39                                                                                                      | 48/50                                                                                                               | 0.038                                                 | 230                         | 0                                         |
| Barium (dissolved)             | 67/64                                  | 30 - 420                                 | P07                                                                                                      | 1,000/2,000                                                                                                         | 2,600                                                 | 520                         | 0                                         |
|                                |                                        |                                          |                                                                                                          |                                                                                                                     |                                                       |                             |                                           |

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|                       |                                        |                                                | Table 3-4                                                                                                |                                                                                                                  |                                                       |                             |                                           |
|-----------------------|----------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                       | SUMM                                   | SUMMARY OF GROUND<br>DRMO Y.<br>OPE<br>FORT WA | r GROUNDWATER PROBE SAM<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(µg/L) | GROUNDWATER PROBE SAMPLE RESULTS<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>ORT WAINWRIGHT, ALASKA<br>(#g/L) | S                                                     |                             |                                           |
| Analyte               | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations            | Location of<br>Maximum<br>Concentration                                                                  | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80)                                                 | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Barium (total)        | 68/65                                  | 30 - 1,200                                     | P04                                                                                                      | 1,000/2,000                                                                                                      | 2,600                                                 | 2,000                       | 0                                         |
| Chromium (total)      | 64/8                                   | 20 - 510                                       | P57                                                                                                      | 11/100                                                                                                           | 37,000                                                | 390                         | 61                                        |
| Lead (dissofved)      | 67/3                                   | 3 - 5                                          | EZd                                                                                                      | NA/15                                                                                                            | 0.0037                                                | 27                          | 0                                         |
| Lead (total)          | 68/10                                  | 2 - 14                                         | P21                                                                                                      | NA/15                                                                                                            | 0.0037                                                | 160                         | 0                                         |
| Mangancse (dissolved) | 67/63                                  | 20 - 6,100                                     | P35                                                                                                      | N A/50 <sup>b</sup>                                                                                              | 180                                                   | 1,900                       | 57                                        |
| Manganese (total)     | 68/65                                  | 20 - 6,400                                     | P35                                                                                                      | NA/50 <sup>b</sup>                                                                                               | 180                                                   | 006'1                       | 57                                        |
| Mcrcury (dissolved)   | 1/19                                   | 0.8                                            | P Slough 1                                                                                               | 0.01272                                                                                                          | 11                                                    | NA                          | 0                                         |
| Dioxins (pg/L.)       |                                        |                                                |                                                                                                          |                                                                                                                  |                                                       |                             |                                           |
| 2,3,7,8-TCDD TEQ      | 68/50                                  | 0.02 - 8.66                                    | P25                                                                                                      | 06/01                                                                                                            | 0.43                                                  | ۷N                          | 0                                         |

Page 4 of 5

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The RBC used m&p-xylene as the one for p-xylene. This RBC is the more conservative of the two RBCs. The RBC used for arsenic is for the carcinogenic form of arsenic. Note:

<sup>a</sup> Risk-based screening concentration values are based on a  $1 \times 10^{-6}$  residential direct contact risk or HQ = 1 (EPA, Region III, July 11, 1994, Risk Based Concentration Tables). b Secondary MCL.

# Table 3-4 (Cont.)

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Key:

- AAC = Alaska Administrative Code.
   DRMO = Defense Reutilization and Marketing Office.
   MCL = Maximum contaminant level.
   µg/L = Micrograms per liter.
   NA = Not applicable.
   pg/L = Picograms per liter.
   TCDD = Tetrachlorodibenzo-p-dioxin.
   TEQ = Toxicity equivalency.

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Page 1 of 2

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|                            |                                        |                                                         | Table 3-5                                                                                                                           |                                                                                                                                            |                                                       |                             |                                           |
|----------------------------|----------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                            | SUN                                    | SUMMARY OF SURF<br>COLLECTI<br>DRMO Y<br>OPI<br>FORT WA | OF SURFACE WATER SAMPLE<br>OLLECTED FROM CHANNEL B<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | OF SURFACE WATER SAMPLE RESULTS<br>OLLECTED FROM CHANNEL B<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>ORT WAINWRIGHT, ALASKA<br>(#g/L) |                                                       |                             |                                           |
| Analyte                    | Number of Samples<br>Analyzed/Detected | Range of Detected<br>Concentrations                     | Location of<br>Maximum<br>Concentration                                                                                             | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL (18<br>AAC 80)                                                                           | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Petroleum Hydrocarbons     |                                        |                                                         |                                                                                                                                     |                                                                                                                                            |                                                       |                             |                                           |
| Dicsel-range organics      | 4/1                                    | 63                                                      | 003                                                                                                                                 | NA/NA                                                                                                                                      | ŇA                                                    | NA                          | NA                                        |
| Volatile Organic Compounds |                                        |                                                         |                                                                                                                                     |                                                                                                                                            |                                                       |                             |                                           |
| Chloroform                 | 4/3                                    | 0.5 - 3.2                                               | 002                                                                                                                                 | 1,240/100                                                                                                                                  | 0.15                                                  | ٧N                          | 0                                         |
| Methylene chloride         | 4/3                                    | 1 - 1                                                   | 002                                                                                                                                 | NA/NA                                                                                                                                      | 4.1                                                   | NA                          | AN                                        |
| Metals                     |                                        |                                                         |                                                                                                                                     |                                                                                                                                            |                                                       |                             |                                           |
| Barium (dissolved)         | 4/4                                    | 71 - 74                                                 | 100                                                                                                                                 | 1,000/2,000                                                                                                                                | 2,600                                                 | 520                         | 0                                         |
| Barium (total)             | 4/4                                    | 70 - 74                                                 | 003                                                                                                                                 | 1,000/2,000                                                                                                                                | 2,600                                                 | 2,000                       | •                                         |
| Manganese (dissolved)      | 4/4                                    | 479 - 536                                               | 00                                                                                                                                  | NA/50 <sup>b</sup>                                                                                                                         | 180                                                   | 1.900                       | 4                                         |
| Manganese (total)          | 4/4                                    | 478 - 532                                               | 100                                                                                                                                 | NA/50b                                                                                                                                     | 180                                                   | 1,900                       | 4                                         |

<sup>a</sup> Risk-bused sereening concentration vulues are based on a 1 × 10<sup>-6</sup> residential risk or an HQ=1 (EPA, Region III, July 11, 1994, Risk Based Concentration Tables). b Secondary MCL.

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|                                      |                                           | Table 3-6                                                                                                                       | •                                                    |                                                       |                             |                                        |
|--------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------|
|                                      | SUMMAR<br>BUILDING 1)<br>FORT             | SUMMARY OF SOIL SAMPLE RESULTS<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(mg/kg) | MPLE RESULT<br>ELL SOURCE /<br>INIT 2<br>INIT ALASKA | (S<br>AREA                                            |                             |                                        |
| Analyte                              | Number of<br>Samples<br>Analyzed/Detected | Range of<br>Detected<br>Concentrations                                                                                          | Location of<br>Maximum<br>Concentration              | Risk-Based<br>Screening<br>Concentration <sup>#</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding RBCs |
| PCBs and Organochlorine Pesticides   |                                           |                                                                                                                                 |                                                      |                                                       |                             |                                        |
| 4,4*-Dichlorodiphenyltrichloroethane | 5/1                                       | 0.0048                                                                                                                          | AP-6808                                              | 1.9                                                   | NA                          |                                        |
| Metals                               |                                           |                                                                                                                                 |                                                      |                                                       |                             |                                        |
| Arsenic                              | 5/5                                       | 1.3 - 5.1                                                                                                                       | AP-6808                                              | 0.37                                                  | 17                          | 5                                      |
| Barium                               | 5/5                                       | 29 - 120                                                                                                                        | AP-6808                                              | 5,500                                                 | 275                         | 0                                      |
| Cadmium                              | 5/5                                       | 0.73 - 2.2                                                                                                                      | AP-6808                                              | 66                                                    | 1.7                         | 0                                      |
| Chromium                             | 5/5                                       | 6.8 - 22                                                                                                                        | AP-6808                                              | 78,000                                                | 35                          | 0                                      |
| Lead                                 | 5/5                                       | 2.4 - 7.9                                                                                                                       | AP-6808                                              | 400                                                   | 25                          | 0                                      |
| Manganese                            | 5/5                                       | 93 - 380                                                                                                                        | AP-6808                                              | 065                                                   | NA                          | 0                                      |
| Selenium                             | 5/1                                       | 0.22                                                                                                                            | AP-6808                                              | 390                                                   | NA                          | 0                                      |
| Silver                               | 5/4                                       | 0.98 - 3.7                                                                                                                      | AP-6808                                              | 390                                                   | NA                          | 0                                      |
| Petroleum Hydrocarbons               |                                           |                                                                                                                                 |                                                      |                                                       |                             |                                        |
| DRO                                  | <i>T/T</i>                                | 260 - 7,700                                                                                                                     | SB-2                                                 | 100 <sup>b</sup>                                      | NA                          | 7                                      |
| GRO                                  | 7/7                                       | 26 - 4,600                                                                                                                      | SB-1                                                 | 50°                                                   | NA                          | 6                                      |
| Volatile Organic Compounds           |                                           |                                                                                                                                 |                                                      |                                                       |                             |                                        |
| Benzene                              | 7/0                                       | NA                                                                                                                              | NA                                                   | 22                                                    | NA                          | NA                                     |
| m&p-Xylenes                          | 7/6                                       | 4.4 - 62                                                                                                                        | SB-3                                                 | 160,000                                               | NA                          | 0                                      |

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| 0                                      | NA                          | 58                                                    | NA                                              | NN                                                                                                                              | 7/0                                       | Trichloroethene |
|----------------------------------------|-----------------------------|-------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
| 5                                      | NA                          | 104                                                   | <b>58-</b> 3                                    | 7.3 - 103                                                                                                                       | 7/6                                       | BTEX            |
| Q                                      | NA                          | 16,000                                                | SB-3                                            | 0.34 - 10                                                                                                                       | 7/4                                       | Toluene         |
| 0                                      | NA                          | 160,000                                               | SB-3                                            | 2.9 - 31                                                                                                                        | 7/6                                       | o-Xylenes       |
| Number of<br>Samples<br>Exceeding RBCs | Background<br>Concentration | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Location of<br>Maximum<br>Concentration         | Range of<br>Detected<br>Concentrations                                                                                          | Number of<br>Samples<br>Analyzed/Detected | Analyte         |
|                                        |                             | AREA                                                  | MPLE RESUL<br>LL SOURCE ,<br>NIT 2<br>T, ALASKA | SUMMARY OF SOIL SAMPLE RESULTS<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(mg/kg) | SUMMAR<br>BUILDING 1<br>FOR               |                 |
|                                        |                             |                                                       |                                                 | Table 3-6                                                                                                                       |                                           |                 |

- Note: The RBC used for m&p-xylenes is the RBC for xylenes mixed. No RBC existes for p-xylenes in soil. The RBC used for arsenie is the one for the carcinogenic form of arsenic. The RBC used for chromium is the one for trivalent chromium.
- ىو Risk-based screening concentration values are based on a  $1 \times 10^{-6}$  residential direct contact risk or an HQ = 1 (EPA Region III, July 11, 1994, Risk Based Concentration Tables).
- c d ADEC soil cleanup matrix score for Level A DRO is 100 mg/kg
- ADEC soil cleanup matrix score for Level A GRO is 50 mg/kg.
- d. ADEC soil cleanup matrix score for Level A BTEX is 10 mg/kg

Key:

- BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
- DRO 11 Diesel-range organics.
- GRO Į, Gasoline-range organics.
- 11 Milligrams per kilogram.
- mg/kg NA lī Not applicable.
- PCBs RBCs
- li ß Polychlorinated biphenyls. Risk-based concentrations.

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|                                    |                                           |                                           | Table 3-7                                                                                                                                 |                                                                                                                             |                                                       |                             |                                           |
|------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                                    | S                                         | SUMMARY OF G<br>BUILDING 116<br>(<br>FORT | <ul> <li>C OF GROUNDWATER SAMPLE     NG 1168 LEACH WELL SOURCI     OPERABLE UNIT 2     FORT WAINWRIGHT, ALASKA     (μg/L)     </li> </ul> | (Y OF GROUNDWATER SAMPLE RESULTS<br>ING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | 50                                                    |                             |                                           |
| Analyte and Concentration<br>Units | Number of<br>Samples<br>Analyzed/Detected | Range of<br>Detected<br>Concentrations    | Location of<br>Maximum<br>Concentration                                                                                                   | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL (18<br>AAC 80)                                                            | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Petroleum Hydrocarbons             |                                           |                                           |                                                                                                                                           |                                                                                                                             |                                                       |                             |                                           |
| Diesel-range organies              | 15/9                                      | 77 - 34,000                               | AP-5751                                                                                                                                   | NA/NA                                                                                                                       | <b>N</b>                                              | NA                          | ۸A                                        |
| Gasoline-range organics            | 20/7                                      | 11 - 18,000                               | AP-5747                                                                                                                                   | NA/NA                                                                                                                       | NA                                                    | NA                          | NA                                        |
| Volatile Organic Compounds         |                                           |                                           |                                                                                                                                           |                                                                                                                             |                                                       | -                           |                                           |
| 1,2,4-Trimethylbenzene             | 20/4                                      | 49 - 350                                  | AP-5751                                                                                                                                   | 100/NA                                                                                                                      | 5                                                     | NA                          | NA                                        |
| 1,3,5-Trimethylbenzene             | 20/4                                      | 18 - 150                                  | AP-5751                                                                                                                                   | 100/NA                                                                                                                      | 2.4                                                   | NA                          | NA                                        |
| Acetone                            | 20/1                                      | 41                                        | AP-5751                                                                                                                                   | NA/NA                                                                                                                       | 3,700                                                 | NA                          | NA                                        |
| Benzene                            | 20/1                                      | 5.1                                       | AP-5752                                                                                                                                   | 0.2/5                                                                                                                       | 0.36                                                  | NA                          | -                                         |
| Cumene                             | 20/4                                      | 18 - 59                                   | AP-5751                                                                                                                                   | NA/NA                                                                                                                       | 1,500                                                 | NA                          | NA                                        |
| Ethylbenzene                       | 20/4                                      | 26 - 310                                  | AP-5751                                                                                                                                   | 0.2/700                                                                                                                     | 1,300                                                 | NA                          | 0                                         |
| m&p-Xylene                         | 20/4                                      | 44 - 620                                  | AP-5751                                                                                                                                   | 0.2/10,000                                                                                                                  | 520                                                   | NA                          | 0                                         |
| n-Butylbenzenc                     | 20/3                                      | 13 - 16                                   | AP-5747                                                                                                                                   | NA/NA                                                                                                                       | ٧N                                                    | NA                          | NA                                        |
| n-Propylbenzene                    | 20/4                                      | 21 - 71                                   | AP-5751                                                                                                                                   | NA/NA                                                                                                                       | ŅŇ                                                    | NA                          | <b>N</b> A                                |
| Naphthalene                        | 35/8                                      | 5 - 130                                   | AP-5751                                                                                                                                   | 0.1/NA                                                                                                                      | 1,500                                                 | NA                          | NA                                        |
| o-Xylene                           | 20/4                                      | 3 - 1,000                                 | AP-5751                                                                                                                                   | 0,2/10,000                                                                                                                  | 1,400                                                 | ΝA                          | 0                                         |
|                                    |                                           |                                           |                                                                                                                                           |                                                                                                                             |                                                       |                             |                                           |

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| MMARY OF GROUNDWATER SAMPLE RESUL<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | SI                                                                                                                                                                                                              |                             |                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL (18<br>AAC 80)                                                                  | Risk-Based<br>Screening<br>Concentration <sup>®</sup>                                                                                                                                                           | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs                                                                                                                                                              |
| NA/NA                                                                                                                             | AN                                                                                                                                                                                                              | NA                          | NA                                                                                                                                                                                                     |
| NA/NA                                                                                                                             | 61                                                                                                                                                                                                              | NA                          | NA                                                                                                                                                                                                     |
| 0,2/1,000                                                                                                                         | 750                                                                                                                                                                                                             | NA                          | 0                                                                                                                                                                                                      |
| 5/5                                                                                                                               | 1.6                                                                                                                                                                                                             | ٨N                          | 1                                                                                                                                                                                                      |
| NA/NA                                                                                                                             | 1,300                                                                                                                                                                                                           | NA                          | NA                                                                                                                                                                                                     |
|                                                                                                                                   |                                                                                                                                                                                                                 |                             |                                                                                                                                                                                                        |
| 0.1/NA                                                                                                                            | NA                                                                                                                                                                                                              | NA                          | NA                                                                                                                                                                                                     |
| 0.1/NA                                                                                                                            | 1,500                                                                                                                                                                                                           | NA                          | NA                                                                                                                                                                                                     |
|                                                                                                                                   |                                                                                                                                                                                                                 |                             |                                                                                                                                                                                                        |
| 48/5(                                                                                                                             | 0.038                                                                                                                                                                                                           | 20                          | 0                                                                                                                                                                                                      |
| 48/5(                                                                                                                             | 0.038                                                                                                                                                                                                           | 72                          | 0                                                                                                                                                                                                      |
| 1,000/2,000                                                                                                                       | 2,600                                                                                                                                                                                                           | 988                         | 0                                                                                                                                                                                                      |
| 1,000/2,000                                                                                                                       | 2,600                                                                                                                                                                                                           | 341                         | 0                                                                                                                                                                                                      |
| 9.3/:                                                                                                                             | 18                                                                                                                                                                                                              | 4.8                         | 0                                                                                                                                                                                                      |
| 11/100                                                                                                                            | 37,000                                                                                                                                                                                                          | NA                          | 0                                                                                                                                                                                                      |
|                                                                                                                                   | AMPLE RESUL<br>SOURCE AREA<br>2<br>Alaska Water<br>Quality Criteria<br>B AAC 70/MCL (18<br>AAC 80)<br>0.2/1,000<br>0.2/1,000<br>5/5<br>5/5<br>0.1/NA<br>0.1/NA<br>0.1/NA<br>48/50<br>1,000/2,000<br>1,000/2,000 | TS                          | Risk-Based<br>Screening       Background<br>Concentration         NA       NA         1,300       1.6         1,300       N         1,500       N         0.038       0.038         2,600       37,000 |

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Page 3 of 3

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|                                                 |                                           |                                              | Table 3-7                                                                                                                                              |                                                                                                                              |                                                       |                             |                                           |
|-------------------------------------------------|-------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                                                 | X                                         | SUMMARY OF GI<br>BUILDING 116<br>C<br>FORT V | <ul> <li>OF GROUNDWATER SAMPLE</li> <li>NG 1168 LEACH WELL SOURCI</li> <li>OPERABLE UNIT 2</li> <li>FORT WAINWRIGHT, ALASKA</li> <li>(µg/L)</li> </ul> | RY OF GROUNDWATER SAMPLE RESULTS<br>DING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | S2                                                    |                             |                                           |
| Analyte and Concentration Sam<br>Units Analyzed | Number of<br>Samples<br>Analyzed/Detected | Range of<br>Detected<br>Concentrations       | Location of<br>Maximum<br>Concentration                                                                                                                | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL (18<br>AAC 80)                                                             | Risk-Based<br>Screening<br>Concentration <sup>4</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Lead (dissolved)                                | 15/2                                      | 1.6 - 5.4                                    | AP-5751                                                                                                                                                | NA/15                                                                                                                        | 0.0037                                                | 6'6                         | 0                                         |
| Lead (lotal)                                    | 16/14                                     | 1.1 - 21                                     | AP-5751                                                                                                                                                | NA/15                                                                                                                        | 0.0037                                                | 66                          | -                                         |
| Manganese (dissolved)                           | 15/13                                     | 82 - 4,400                                   | AP-5751                                                                                                                                                | NA/50 <sup>b</sup>                                                                                                           | 180                                                   | ۷N                          | 11                                        |
| Mangancse (total)                               | 16/14                                     | 11 - 4,400                                   | AP-5751                                                                                                                                                | NA/50 <sup>b</sup>                                                                                                           | 180                                                   | AN                          | 11                                        |
| Selenium (dissolved)                            | 15/2                                      | 2.4 - 3.1                                    | AP-5751                                                                                                                                                | 10/50                                                                                                                        | 180                                                   | NA                          | 0                                         |
| Selenium (total)                                | 16/3                                      | 1.7 - 2.5                                    | AP-5751                                                                                                                                                | 10/50                                                                                                                        | 180                                                   | AN                          | 0                                         |
| Silver (total)                                  | 16/1                                      | 22                                           | AP-5781                                                                                                                                                | NA/100 <sup>h</sup>                                                                                                          | 180                                                   | ٧N                          | 0                                         |

The RBC used for m&p-xylene is the one for p-xylene. This RBC is the more conservative of the two. The RBC used for arsenic is the one for the carcinogenic form of arsenic. The RBC used for chromium is the one for trivalent chromium.

<sup>a</sup> Risk-based screening concentration values based on a 1 x 10<sup>-6</sup> residential risk or an HQ=1 (EPA, Region III, July 11, 1994, Risk Based Concentration Tables). <sup>b</sup> Secondary MCL.

Key:

AAC = Alaska Administrative Code. MCLs = Maximum contaminant levels.  $\mu g/L$  = Micrograms per liter. NA = Not applicable.

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Page 1 of 4

|                        |                                                       |                                                                                                                                     | Table 3-8                                                                                                     |                                                                  |                                                       |                             |                                           |
|------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                        | SU<br>B                                               | SUMMARY OF MICROWELL SAMPLE RESULTS<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(µg/L) | XY OF MICROWELL SAMPLE F<br>NG 1168 LEACH WELL SOURCI<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(μg/L) | MPLE RESULT<br>SOURCE AREA<br>2<br>ALASKA                        | S                                                     |                             |                                           |
| Analytes               | Number of<br>Sampl <del>is</del><br>Analyzed/Detected | Range of<br>Detected<br>Concentrations                                                                                              | Location of<br>Maximum<br>Concentration                                                                       | Alaska Water<br>Quaiity Criteria<br>18 AAC 70/MCL<br>(18 AAC 80) | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Metals                 |                                                       |                                                                                                                                     |                                                                                                               |                                                                  |                                                       |                             |                                           |
| Aluminum               | 72/72                                                 | 135 - 39,300                                                                                                                        | PS10                                                                                                          | NA/200                                                           | 37,000                                                | NN                          | 24                                        |
| Arsenic                | 27/15                                                 | 6 - 44                                                                                                                              | PS12                                                                                                          | 48/50                                                            | 0.038                                                 | 76                          | 0                                         |
| Barium                 | 71/12                                                 | 104 - 1,030                                                                                                                         | PSIO                                                                                                          | 1,000/2,000                                                      | 2,600                                                 | 886                         | 0                                         |
| Chromium               | 27/16                                                 | 6 - 90                                                                                                                              | PS26                                                                                                          | 11/100                                                           | 37,000                                                | 125                         | 0                                         |
| Copper                 | 27/17                                                 | 12 - 222                                                                                                                            | PS26                                                                                                          | 12/1,000                                                         | 1,400                                                 | AN                          | 0                                         |
| lron                   | 27/27                                                 | 1,340 - 188,000                                                                                                                     | PS26                                                                                                          | 1,000/300                                                        | NA                                                    | ΨN                          | 27                                        |
| Lcad                   | 27/17                                                 | 2 - 49                                                                                                                              | DIS4                                                                                                          | 3.2/15                                                           | 0.0037                                                | 66                          | 10                                        |
| Manganese              | 27/27                                                 | 25 ~ 2,930                                                                                                                          | PS21                                                                                                          | NA/50 <sup>b</sup>                                               | 180                                                   | ΝA                          | 26                                        |
| Vanadium               | 27/14                                                 | 10 - 116                                                                                                                            | 01Sd                                                                                                          | NA/NA                                                            | 260                                                   | NA                          | Ν                                         |
| Zinc                   | 27/19                                                 | 16 - 242                                                                                                                            | PS10                                                                                                          | 47/5,000                                                         | 11,000                                                | NA                          | 0                                         |
| Petroleum Hydrocarbons |                                                       |                                                                                                                                     | -                                                                                                             |                                                                  |                                                       |                             |                                           |
| GRO                    | 27/10                                                 | 57 - 63,100                                                                                                                         | PSOI                                                                                                          | NA/NA                                                            | <b>N</b> N                                            | NA.                         | A N                                       |
| DRO                    | 27127                                                 | 55 - 28,400                                                                                                                         | IOSd                                                                                                          | NA/NA                                                            | NA                                                    | NA                          | A N                                       |
|                        |                                                       |                                                                                                                                     |                                                                                                               |                                                                  |                                                       |                             |                                           |

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Page 2 of 4

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| 1,300                                                 |                                                                                                                                     |                                                                                                               |                                                                                                                                   |                                           |                                   |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|
|                                                       | 0.2/700                                                                                                                             | PSOI                                                                                                          | 3.6 - 650                                                                                                                         | 27/8                                      | Ethylbenzene                      |
|                                                       | NA/NA                                                                                                                               | PS15                                                                                                          | 0.7 - 1                                                                                                                           | 2717                                      | Dichlorodifluoromethane           |
|                                                       | 1,240/100                                                                                                                           | PS11                                                                                                          | 2.4                                                                                                                               | 27/1                                      | Chloroform                        |
|                                                       | NA/NA                                                                                                                               | PS05                                                                                                          | 0.5 - 1                                                                                                                           | 27/2                                      | Carbon disulfide                  |
|                                                       | NA/NA                                                                                                                               | PS21                                                                                                          | 6                                                                                                                                 | 27/1                                      | Bromohenzene                      |
| 0.36                                                  | 0.2/5.0                                                                                                                             | PS01                                                                                                          | 0.6 - 250                                                                                                                         | 27/12                                     | Benzene                           |
| 3,700                                                 | NA/NA                                                                                                                               | PS09                                                                                                          | 2 - 9                                                                                                                             | 27/9                                      | Acctone                           |
|                                                       | NA/NA                                                                                                                               | PS21                                                                                                          | 5                                                                                                                                 | 27/1                                      | 4-Chlorotaluene                   |
| 22,000                                                | NA/NA                                                                                                                               | PS10                                                                                                          | 2 - 3                                                                                                                             | 27/2                                      | 2-Butanone (MEK)                  |
| 540                                                   | 763/NA                                                                                                                              | PS21                                                                                                          | در.                                                                                                                               | 27/1                                      | 1,3-Dichlorobenzene               |
| 2.4                                                   | 100/NA                                                                                                                              | PS01                                                                                                          | 3 - 370                                                                                                                           | 27/5                                      | 1,3,5-Trimethylhenzene            |
|                                                       | 100/NA                                                                                                                              | PS01                                                                                                          | 2 - 800                                                                                                                           | 27/6                                      | 1,2,4-Trimethylbenzene            |
|                                                       |                                                                                                                                     |                                                                                                               |                                                                                                                                   | S                                         | <b>Volatile Organic Compounds</b> |
| Risk-Based<br>Screening<br>Concentration <sup>A</sup> | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80) Co                                                                 | Location of<br>Maximum<br>Concentration                                                                       | Range of<br>Detected<br>Concentrations                                                                                            | Number of<br>Samples<br>Analyzed/Detected | Analytes                          |
| :                                                     | SUMMARY OF MICROWELL SAMPLE RESULTS<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | RY OF MICROWELL SAMPLE I<br>NG 1168 LEACH WELL SOURCI<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | UMMARY OF MICROWELL SAMPLE RESULT<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | S<br>S                                    |                                   |
|                                                       |                                                                                                                                     | Table 3-8                                                                                                     |                                                                                                                                   |                                           |                                   |

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Page 3 of 4

|                                |                                           |                                                                                                                                     | Table 3-8                                                                                                    |                                                                  |                                                       |                             |                                           |
|--------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------|
|                                | B                                         | SUMMARY OF MICROWELL SAMPLE RESULTS<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | YY OF MICROWELL SAMPLE H<br>NG 1168 LEACH WELL SOURC<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | MPLE RESULT<br>SOURCE AREA<br>2<br>ALASKA                        | S                                                     |                             |                                           |
| Analytes                       | Number of<br>Samples<br>Analyzed/Detected | Range of<br>Detected<br>Concentrations                                                                                              | Location of<br>Maximum<br>Concentration                                                                      | Alaska Water<br>Quality Criteria<br>18 AAC 70/MCL<br>(18 AAC 80) | Risk-Based<br>Screening<br>Concentration <sup>a</sup> | Background<br>Concentration | Number of<br>Samples<br>Exceeding<br>MCLs |
| Naphthalenc                    | 2773                                      | 6 - 250                                                                                                                             | PS01                                                                                                         | 0.1/NA                                                           | 1,500                                                 | <b>V</b> N                  | ΥN                                        |
| Toluene                        | 27/8                                      | 0.6 - 2,700                                                                                                                         | PS01                                                                                                         | 0.2/1,000                                                        | 750                                                   | NA                          | 2                                         |
| Total xylenes                  | 27/10                                     | 1,4 - 4,300                                                                                                                         | PS01                                                                                                         | NA/10,000                                                        | 12,000                                                | ۷N                          | 0                                         |
| Trichloroethene                | 27/6                                      | 1.0 - 47                                                                                                                            | E229                                                                                                         | 5/5                                                              | 1.6                                                   | NA                          | 4                                         |
| Trichlorofluoromethane         | 27/7                                      | 0.5 - 17                                                                                                                            | 11Sd                                                                                                         | NA/NA                                                            | 000£'1                                                | <b>N</b> A                  | AN<br>NA                                  |
| cis-1,2-Dichloroethene         | 27/4                                      | 0.7 - 9.5                                                                                                                           | PS21                                                                                                         | 11,600/70                                                        | 19                                                    | <b>V</b> N                  | 0                                         |
| n-Propylbenzene                | 27/2                                      | 4 - 6                                                                                                                               | PS21                                                                                                         | NA/NA                                                            | NA                                                    | AN<br>NA                    | NA                                        |
| Semivolatile Organic Compounds | ounds                                     |                                                                                                                                     |                                                                                                              |                                                                  |                                                       | :                           |                                           |
| 2-Methylnaphthalene            | 27/3                                      | 19 - 29                                                                                                                             | E223                                                                                                         | 0.1/NA                                                           | AN                                                    | NA                          | <b>V</b> N                                |
| 3- and 4-Methylphenol          | 27/3                                      | 18 - 64                                                                                                                             | PS01                                                                                                         | NA/NA                                                            | 180                                                   | NA                          | ٧N                                        |
| Naphthalcnc                    | 27/4                                      | 10 - 87                                                                                                                             | 523                                                                                                          | 0.1/NA                                                           | 1,500                                                 | NA                          | AN                                        |
|                                |                                           |                                                                                                                                     |                                                                                                              |                                                                  |                                                       |                             | :                                         |

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## Table 3-8 (Cont.)

Note: The RBC used for arsenic is for the careinogenic form of arsenic. The RBC used for chromium is the one for trivalent chromium. The RBC used for xylenes is the one for xylenes mixed. The RBC used for 3- and 4-methylphenol is the one for 4-methylphenol, the more conservative of the two.

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Risk-based screening concentration values based on a 1 x 10<sup>-6</sup> residential risk or HQ=1 (EPA, Region III, July 11, 1994, Risk-Based Concentration Tables). Secondary MCL.

Key:

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- Alaska Administrative Code.
- DRO = Diesel-range organics.
- GRO
- MCLs NA NA VOCs Gasoline-range organics.
   Maximum contaminant levels.
  - = Methyl ethyl kelone.
  - Micrograms per liter.
- Volatile organic compounds. = Not applicable.

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### 4.0 SUMMARY OF SITE RISKS

The Baseline Human Health and Ecological Risk Assessment is one mechanism for determining the need for taking action at the source areas and indicates exposure pathways that need to be addressed by remedial action. Risk Assessments are performed using information regarding contaminants and assumptions regarding the extent to which people may be exposed to them. This summary of the Baseline Human Health Risk Assessment for the source areas is divided into the five following sections:

- Identification of chemicals of potential concern;
- Exposure assessment;
- Toxicity assessment;
- Risk characterization, which is an integration and summary of the information gathered and analyzed in the preceding sections; and
- Analysis of the uncertainties involved in developing a Risk Assessment.

The summary concludes with the results of the Ecological Risk Assessment conducted for the DRMO Yard and Building 1168 Leach Well.

Human Health and Ecological Risk Assessments were conducted for OU-2 to determine potential risks in the absence of remedial action. CERCLA guidance allows the Baseline Human Health Risk Assessment to reflect the expected future use of a site. Scenarios involving future residential use of the DRMO Yard and Building 1168 Leach Well were completed; however, these scenarios were determined to not be appropriate for soils because industrial use is the reasonably anticipated future use, based on the Post Master Plan and historical use of both areas.

It was determined, because of site hydrological conditions, that future residential risks identified in the Baseline Human Health Risk Assessment apply to groundwater because an exposure pathway for domestic water users exists. The NCP requires that groundwater be returned to its beneficial uses whenever practicable. At these source areas, the beneficial use is domestic water supply.

### 4.1 IDENTIFICATION OF CONTAMINANTS OF CONCERN

Selection of contaminants of concern, which are chemicals that potentially contribute to human health risks at the source areas, was a three-step process. First, the maximum concentrations of contaminants detected in on-site soil and water during the RI field investigation were compared to health-based screening levels for soil and drinking water developed by EPA, Region 3, (April 20, 1994) and Region 10, Supplemental Risk Assessment Guidance. These standards reflect residential exposure assumptions of  $1 \times 10^6$  and  $1 \times 10^7$ risks associated with groundwater and soil, respectively, or a hazard quotient of 0.1 for all media. Secondly, inorganic chemicals were compared to naturally occurring background levels. If concentrations were found below established background levels, they were eliminated from further consideration. Thirdly, chemicals detected at a frequency of less than 1% were eliminated from consideration unless their concentration was significantly higher than EPA's health-based screening levels. While soil contamination did not pose a direct threat to human health, it does act as an ongoing source of contamination to groundwater.

Table 4-1 presents the contaminants of concern identified in each environmental medium evaluated for each source area.

### 4.2 EXPOSURE ASSESSMENT

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The exposure assessment estimates the type and magnitude of exposures to the contaminants of concern at the source areas. The exposure assessment considers the current and potential future uses of the source area, characterizes the potentially exposed populations, identifies the important exposure pathways, and quantifies the intake of each contaminant of concern from each medium for each population at risk. The Human Health Risk Assessment for OU-2 was completed for the DRMO Yard and Building 1168 Leach Well.

## 4.2.1 Identification of Site Uses, Exposed Populations, and Exposure Pathways

### 4.2.1.1 Source Area Land Use Scenarios

The exposure assessment for the DRMO Yard and Building 1168 Leach Well source areas considers land use scenarios to evaluate exposed populations. The Baseline Human Health Risk Assessment evaluated future residential land use of the site, which assumes that individuals would spend 30 years of their time at the source. Even though this scenario is unlikely, it provides a conservative baseline to avoid underestimation of risks. The industrial scenario assumes that the site would continue to be used for industrial purposes and that workers would spend 25 years of continuous employment at the site. Tables 4-2 and 4-3 identify the potential exposure routes evaluated for the Human Health Risk Assessment. It was determined that the industrial scenario would be appropriate for these source areas for the land use purposes. For groundwater, the future residential use scenario is used to represent the impacted drinking water supply aquifer and potential consumption.

### 4.2.1.2 Exposure Pathways and Assumptions

An exposure pathway is the mechanism by which chemicals migrate from their source or point of release to the population at risk. A complete exposure pathway comprises four elements: a source of a chemical release, transport of contaminants through environmental media, a point of potential human contact with a contaminated medium, and entry into the body or exposure route.

The exposure pathways considered in the Baseline Human Health Risk Assessment varied depending on the land use and population potentially exposed. The exposure assessment identified potential pathways for contaminants of concern to reach the exposed population for each source area. A "complete" exposure pathway must exist for a contaminant to pose a potential human health risk (i.e., the potential receptor to be exposed to a contaminant must exist).

### 4.2.1.3 Calculation of Exposure

EPA's Superfund guidance requires that the reasonable maximum exposure be used to calculate potential health impacts at Superfund sites. The reasonable maximum exposure is the highest exposure that is reasonably expected to occur at the source areas and is calculated using conservative assumptions in order to represent exposures that are reasonable and protective. The Baseline Human Health Risk Assessment reasonable maximum and average exposures were estimated for the residential and industrial land use scenarios. Average exposures were calculated to represent exposures of a more typical person.

To estimate exposure, data regarding the concentrations of contaminants of concern in the media of concern at the source area (the exposure point concentrations) are combined with information about the projected behaviors and characteristics of the people who potentially may be exposed to these media (exposure parameters). These elements are described below:

a) Exposure Point Concentrations. Surface soil (0 feet to 2 feet BGS), subsurface soil (2 feet to 12 feet BGS), and groundwater sample results for the DRMO Yard were averaged to calculate exposure point concentrations for the reasonable maximum exposure and average exposure calculations. At the DRMO Yard, two wells were selected from three areas (Area 1, Area 2, and Area 3) within the source area to be evaluated to ensure that the risks associated with "hot spots" were considered. Data from these areas were averaged to provide the reasonable maximum exposure. Because contaminant release occurred through a subsurface leach well at Building 1168, only subsurface soil contamination exists. Therefore, surface soil, sediment, and air exposure pathways risks were not calculated. Groundwater exposure point concentrations were calculated. Tables 4-4 through 4-7 contain exposure point concentrations for carcinogenic and noncarcinogenic contaminants of concern at both source areas. The exposure point concentrations were calculated on the arithmetic mean as the data (average) and as the 95% upper confidence level of the arithmetic mean of the data (reasonable maximum exposure).

Note: A value of one-half the detection limit was used for nondetect concentrations for soil and groundwater to calculate the exposure point concentration. Because of the large number of nondetects (between 75% and 95% of the samples for many chemicals), the calculated 95% upper confidence limits (UCLs) are generally representative of the mean concentration. In addition, the maximum detected concentration for many chemicals was often only one to two orders of magnitude greater than the mean concentration. This finding indicates that, in general, there was not a wide variability in the distribution of chemicals in the different media. Because of these reasons, the 95% UCLs for many of the chemicals detected in soil and groundwater at OU-2 are not substantially different from the mean concentration.

b) Exposure Parameters. The parameters used to calculate the reasonable maximum exposure include body weight, age, contact rate, frequency of exposure, and exposure duration. Exposure parameters were obtained from EPA, Region 10, Risk Assessment guidance (Region 10, Supplemental Risk Assessment Guidance for

Superfund [EPA 1991]). The default exposure factors were modified to reflect site-specific climatological and other factors at Fort Wainwright. Site-specific exposure assumptions were made for soil contact, including ingestion, dermal contact, and inhaling dust, based on snow cover half the year.

For all of the media, exposures were estimated assuming long-term exposures to source area contaminants.

### 4.3 TOXICITY ASSESSMENT

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The baseline human health evaluation provides toxicity information for the chemicals of concern. Generally, cancer risks are calculated using toxicity factors known as *slope factors*, while noncancer risks rely on reference doses.

EPA developed slope factors for estimating lifetime cancer risks associated with exposure to potential carcinogens. Slope factors are expressed in units of (milligrams per kilogram [mg/kg]-day<sup>-1</sup>) and are multiplied by the estimated intake of a potential carcinogen, in mg/kg-day<sup>-1</sup>, to provide an upperbound estimate of the excess lifetime cancer risk associated with exposure at that intake level. The term *upperbound* reflects the conservative estimate of the risks calculated from the slope factor. Use of this approach makes it highly unlikely that the actual cancer risk would be underestimated. Slope factors are derived from the results of human epidemiological studies or chronic animal bioassays to which mathematical extrapolations from high to low dose and from animal to human dose have been applied.

Reference doses were developed to indicate the potential for adverse health effects from ingestion of potential contaminants of concern that exhibit such noncancer effects as damage to organ systems (e.g., the nervous system and blood forming system). Reference doses also are expressed in units of mg/kg-day and are estimates within an order of magnitude of lifetime daily exposure levels for people, including sensitive individuals, who are likely to be without risk of adverse effect. Estimates of intakes of concern ingested from environmental media (e.g., the amount of a contaminant of concern ingested from contaminated drinking water) can be compared to the reference dose. Reference doses are derived from human epidemiological studies and from animal studies to which uncertainty factors have been applied.

The toxicity factors were drawn from the Integrated Risk Information System or, if no Integrated Risk Information System values were available, from the Health Effect Assessment Summary Tables. For chemicals that do not have toxicity values available, other criteria, such as state and federal MCLs, were used to assess potential hazards or to determine action levels.

## 4.4 RISK CHARACTERIZATION

The purpose of the risk characterization is to integrate the results of the exposure and toxicity assessments to estimate risk to humans from exposure to site contaminants. Risks were calculated for carcinogenic (cancer-causing) and noncarcinogenic (toxic) effects based on the reasonable maximum exposure (see Section 4.2). To estimate cancer risk, the slope factor is multiplied by the exposure expected for that chemical to provide an upperbound estimate of
the excess lifetime cancer risk. This estimate is the incremental probability of an individual developing cancer over a lifetime as a result of exposure to cancer-causing chemicals at a source area. EPA considers excess lifetime cancer risks between 1 in 1 million  $(1 \times 10^6)$  and 1 in 10,000  $(1 \times 10^4)$  to be within the generally acceptable range; risks greater than 1 in 10,000 usually suggest the need to take action at a site.

In defining effects from exposure to noncancer-causing contaminants, EPA considers acceptable exposure levels as those that do not adversely affect humans over their expected lifetime, with a built-in margin of safety. Potential concern for noncarcinogenic effects of a single contaminant in a single medium is expressed as a hazard quotient, which is the ratio of the estimated exposure from a site contaminant to that contaminant's reference dose. If the hazard quotient is less than 1, then adverse noncancer health effects are unlikely to occur. Hazard quotients for individual contaminants of concern are summed to yield a hazard index for the sub-area. The potential excess lifetime cancer risks and hazard indices described in this summary were calculated using reasonable maximum exposure assumptions.

Under current land use conditions, the estimates of carcinogenic and noncarcinogenic effects for the DRMO Yard fell within or below the EPA acceptable risk range for CERCLA sites. A current land use scenario was not evaluated for the Building 1168 Leach Well because there were no complete exposure pathways.

The future land use for both source areas is considered to be industrial. However, a residential scenario for groundwater is considered appropriate and representative of risk to current downgradient users, given DRMO Yard and Building 1168 Leach Well site hydrological conditions and the presence of the potable water supply/fire suppression well within the DRMO Yard. When considering groundwater as a source of domestic water, manganese was detected in groundwater at concentrations above EPA's acceptable risk range at the Building 1168 Leach Well. However, the manganese concentrations detected at the Building 1168 Leach Well are considered reflective of background concentrations in this mineral-rich area and are consistent with concentrations found in other source areas throughout Fort Wainwright.

Excess lifetime incremental cancer risks and hazard indices for both source areas are summarized in Tables 4-8 and 4-9. The incremental risks and hazard indices are calculated after subtracting the background concentrations of inorganics.

While soil contaminant concentrations do not pose a hazard for direct human contact, the levels are high enough to pose an ongoing threat to groundwater. Existing groundwater contaminant concentrations exceed state and federal MCLs.

### 4.4.1 Defense Reutilization and Marketing Office Yard

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Excess lifetime incremental cancer risks for soil are below the 1 in 10,000 to 1 in 1 million risk range at the DRMO Yard, with the exception of benzo(a)pyrene, which is within the EPA acceptable risk range. Incremental hazard indices for soil at the DRMO Yard are less than 1. Arsenic was the main contaminant responsible for exceedance of an excess lifetime cancer risk of  $1 \times 10^6$  for site workers and future residents. The average background concentration of arsenic in soil is higher than the estimated surface soil reasonable maximum exposure, indicating that the arsenic risk for soil is attributable to background concentrations.

Excess incremental lifetime cancer risks for groundwater are below or within EPA's acceptable risk range of 1 in 10,000 to 1 in 1 million at the DRMO Yard. However, groundwater near the DRMO Yard groundwater supply/fire suppression well is contaminated with PCE at concentrations approaching unacceptable excess lifetime cancer risks  $(8.7 \times 10^{-5})$ . VOCs are the contaminants responsible for exceedance of a  $1 \times 10^{-5}$  risk for future residential use of groundwater. The incremental hazard index for groundwater at the DRMO Yard is less than 1.

State and federal MCLs for PCE and TCE are exceeded consistently in sub-area DRMO1 groundwater. State and federal MCLs for benzene and PCE are exceeded in sub-area DRMO4 groundwater.

# 4.4.2 Building 1168 Leach Well

Excess lifetime incremental cancer risks for groundwater are below or within the 1 in 10,000 to 1 in 1 million risk range at the Building 1168 Leach Well. Arsenic was the main contaminant responsible for exceedance of an excess lifetime cancer risk of  $1 \times 10^{-6}$ .

The average incremental hazard index for future groundwater use is less than 1; however, the reasonable maximum exposure hazard index is 7.8. Manganese is the main contaminant contributing to the elevated hazard index. However, manganese was not used and was not a by-product of any process conducted at the Building 1168 Leach Well.

## 4.5 MAJOR UNCERTAINTIES

Uncertainty is associated with every step of the Risk Assessment process. The main uncertainty associated with the OU-2 Human Health Risk Assessment process that could result in overly conservative risk evaluation is summarized below:

• EPA recommends use of a default value of 30 years for residential exposure; however, most military assignments are for a much shorter period of time, often only one to three years.

Uncertainties that may underestimate site-related risk and exposures include the following:

- As a result of a data review reported by one laboratory, many pesticide and PCB data points were rejected for data quality reasons. However, these rejections do not appear to significantly affect the Risk Assessment; and
- Some of the analyses performed (diesel-range organics, gasoline-range organics, and total petroleum hydrocarbons) do not provide chemical-specific data; therefore, associated risks could not be quantified. However, surrogate chemicals were evaluated.

Uncertainties with unknown effects on the outcome of the Human Health Risk Assessment include the following:

- Multiple laboratories were used to analyze OU-2 samples, which can lead to inconsistencies in approach and can introduce errors or laboratory artifacts not easily identified;
- Surrogate toxicity factors were used to evaluate the potential risk associated with structurally similar chemicals that lack EPA-verified toxicity factors (e.g., naphthalene was used as a surrogate for methylnaphthalene). However, it was impossible to identify appropriate surrogates for all chemicals lacking verified toxicity factors. Therefore, certain chemicals were not evaluated in the Risk Assessment.
- The quality assurance/quality control process identified some concerns with regard to analytical results for organochlorine and organophosphorus pesticide samples. After data concerns were raised for OU-2 pesticide analytical results, separate independent reviews of the data were conducted by the Army; United States Army Engineer District, Alaska; and EPA. While the conclusions of both reviews indicate that the data are usable and consistent with other quality assurance laboratory analyses, uncertainty remains. However, to provide perspective, the action/no action decisions in this Record of Decision would not change even if the results were an order of magnitude different than those reported. The variability of results Is not expected to exceed this estimate, even under worst-case conditions.

Because numerous conservative assumptions were used in the selection of contaminants of concern and the exposure and toxicity assessments, the risk characterization results likely overestimate risks associated with contaminants of concern at OU-2.

### 4.6 ECOLOGICAL RISKS

An Ecological Risk Assessment addresses the impacts and potential risks posed by contaminants to natural habitats, including plants and animals, in the absence of remedial action. The three main phases of the Ecological Risk Assessment are problem formulation, analysis, and risk characterization.

The following sections present a brief discussion of the Ecological Risk Assessment steps.

### 4.6.1 Problem Formulation

To narrow the scope and to focus the Ecological Risk Assessment on the most important aspects of OU-2, a number of steps was performed. An ecological survey was conducted at the DRMO Yard and Building 1168 Leach Well. In addition, previous ecological investigations, including wildlife inventories, were reviewed. A description of the regional and local ecology was completed, and threatened, endangered, sensitive, or rare species were identified.

Chemicals of potential ecological concern were identified by a review of the OU-2 analytical database with regard to data quality, spatial representation and adequacy for an Ecological Risk Assessment, comparison to background concentrations, and comparison to ecological risk-based criteria for sediment and surface water. Next, pathways of contaminant migration exposure were identified by an evaluation of sources of contaminants and the mechanisms by which they may be transported to media of ecological concern, plants, and animals.

Potential ecological effects are summarized by a review of the toxicological literature. These summaries present a review of the known toxicological effects of the chemicals of potential ecological concern on wildlife species.

Two types of ecological end points are considered in the Ecological Risk Assessment: assessment and measurement end points:

- Assessment end points are qualitative or quantitative expressions of the environmental values to be protected at OU-2 and are selected by consideration of species that play important roles in community structure or function; species of societal significance or concern; species of concern to federal and state agencies; diet, habitat preference, and behaviors that predispose the species to chemicals of potential ecological concern exposure; amenability of the selected species to measurement or prediction of effects; and species that may be particularly sensitive to the chemicals of potential ecological concern identified at OU-2; and
- Measurement end points include the species and communities used to quantify the potential ecological impacts posed by OU-2 chemicals of potential ecological concern. Representative measurement species are selected based on the relative abundance of each species and establishment of functional groups based on trophic level and preferred habitat. Representative indicator species then are selected based on the potential for exposure and the availability of toxicological data. The following measurement species and communities were selected for evaluation at OU-2: meadow voles, muskrats, and benthic invertebrates.

A conceptual ecological exposure model is formulated and defines the receptors and pathways to be evaluated in the Ecological Risk Assessment. The refined conceptual ecological exposure models for OU-2 are potential ecological risks that may result from exposure of terrestrial wildlife and vegetation to chemicals of potential ecological concern found in the surface soils at the DRMO Yard and from exposure of benthic invertebrates to sediments and surface water associated with the DRMO Yard. No complete ecological exposure pathways associated with the Building 1168 Leach Well were identified; therefore, the source area was not evaluated further.

### 4.6.2 Analysis

The analysis phase of the Ecological Risk Assessment evaluates receptor exposure to chemicals of potential ecological concern and the potential adverse effects of that exposure. Analysis of exposure and effects is based on the ecological end points and the refined conceptual ecological exposure site model derived during the problem formulation phase. Analysis comprises two main components:

- Exposure assessment, in which exposure point concentrations and chemical of potential ecological concern intakes for the measurement species are estimated; and
- Ecological effects assessment, in which toxicity benchmark values are derived from the literature and toxicological databases, and uncertainty factors are selected and applied to the toxicity benchmark values to yield toxicity reference values. The uncertainty factors are used to compensate for applying data derived from laboratory or domestic animal studies to free-ranging wildlife (for which little empirical data are available).

### 4.6.3 Risk Characterization

Risk characterization involves two major components: risk estimation and risk description.

### 4.6.3.1 Risk Estimation

Risk estimation involves calculating hazard quotients to assess potential ecological risks to measurement species and communities. This method involves comparing calculated exposure doses or media concentrations with toxicity reference values and/or experimentally derived risk-based concentrations. Ecological effects are quantified by calculating the ratio between a chemical of potential ecological concern's estimated intake or concentration and its corresponding toxicity reference value (i.e., the intake level or concentration at which no adverse ecological effects are expected to occur). If this ratio (i.e., the hazard quotient) exceeds 1, then adverse ecological effects may be expected for the chemical of potential ecological concern. The hazard quotients described in this summary were calculated using conservative reasonable maximum exposure assumptions.

The hazard quotients for each exposure pathway (e.g., soil ingestion and surface water ingestion) may be summed for each chemical of potential ecological concern to establish chemical-specific hazard indices for each measurement species. The hazard indices provide a species- and chemical-specific characterization of the potential ecological risks across all of the assessed exposure pathways. Finally, the hazard indices can be added across contaminants that have similar effects.

## 4.6.3.2 Risk Description

Risk description involves summarizing the ecological significance of the potential risks and presenting the uncertainties associated with the Ecological Risk Assessment.

The results of the Ecological Risk Assessment for OU-2 indicate a potential for adverse effects to small terrestrial mammals (e.g., voles) at the DRMO Yard, reflecting ecologically significant concentrations of manganese and lead. These risks are associated with ingestion of soil and vegetation. These contaminants do not appear to be associated with historical source area activities and are consistent with regional background concentrations. Additionally, the DRMO Yard is an industrial area with a significant amount of heavy equipment and human activity. The habitat area in these locations has been altered significantly from the surrounding land. Specific species surveys and traps were not used. The actual number of animals that could be affected by these chemicals could be very low.

At the DRMO Yard drainage ditches, muskrats may be impacted by lead, manganese, arsenic, dioxin, and PCBs present in the sediments; however, the east drainage ditch containing the PCBs and dioxins was excavated in 1995. For the purposes of the Ecological Risk Assessment, it was assumed that the muskrat would remain year-round in the surface water bodies at the DRMO Yard. This is a conservative assumption because muskrats are known to migrate to larger water bodies during winter, when smaller water bodies freeze. Therefore, the risk is overestimated. In addition, impacts to the muskrat population are not expected because the affected areas are limited in size.

Sediment quality criteria are a measure of the potential adverse effects to benthic invertebrates. Organic chemicals of potential ecological concern, lead, and cadmium exceed the sediment quality criteria in the east ditch. However, the east ditch is dry throughout most of the year and therefore does not support aquatic life. In addition, this ditch was excavated in 1995. Although the sediment quality criteria were exceeded for arsenic, manganese, and lead in Channel B and the north channel at the DRMO Yard, the origin of these inorganic chemicals is assumed to be attributable mainly to a combination of naturally occurring concentrations, contributions from other anthropogenic sources, and diffuse nonpoint source input from the DRMO Yard source area.

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Overall, there do not appear to be unacceptable potential ecological risks associated with the DRMO Yard source area.

The Ecological Risk Assessment is subject to uncertainties because virtually every step in the Risk Assessment process involves assumptions using professional judgment. Principal uncertainties associated with the OU-2 Ecological Risk Assessment include the following:

- Site and media with incomplete exposure pathways were eliminated from evaluation;
- For terrestrial species, the risks were estimated using average site chemical concentrations in soil between 0 feet and 2 feet BGS and modeled chemical concentrations in plants for the meadow vole;
- For aquatic species, risks were estimated by calculating hazard indices for muskrats potentially exposed to chemicals of potential ecological concern in sediments and plants, and by evaluating the potential adverse effects to benthic invertebrates by comparing sediment chemicals of potential ecological concern to sediment quality criteria;

- Sampling was biased toward areas of "expected" soil contamination. This is likely to result in an overestimation of potential risks to the OU-2 ecological receptors;
- Conservative assumptions were used in estimating exposures and in developing the contaminant screening criteria (such as using the lowest no observed adverse effect level value from the literature), which tend to overestimate risks;
- Indicator species were selected on the basis of likelihood of exposure to contaminants. Exposure of other terrestrial and aquatic receptors is not expected to exceed these risks. Conservative assumptions were used in the selection of the indicator species to minimize the potential for underestimating the exposure to other unevaluated receptors;
- Exposure parameters for all measurement species were selected based on professional judgment. Assumptions included the following: that chemicals do not degrade, terrestrial receptors are exposed chronically to the mean concentration of all chemicals of potential ecological concern in soil and sediment, receptors spend their lifetime within the contaminated portion of the site, contaminants are absorbed completely via all evaluated exposure routes, chemicals do not combine to form new chemicals, and plant uptake modeling accurately describes chemical uptake in plants. Without extensive site-specific field data, it is unclear whether potential risks are underestimated or overestimated using the selected exposure parameters;
- Assumptions used in the effects assessment include the following: use of animal data can be extrapolated across species, laboratory species have sensitivity to chemicals of potential ecological concern similar to species in the natural environment, data for reproductive and development end points can predict impacts to populations, oral exposure toxicity values can be used to evaluate dermal exposure, indicator species are as sensitive to the toxic effects of chemicals of potential ecological concern as the other species on site, and the toxicity benchmarks adequately address the potential toxicity of chemicals of ecological concern to relevant species. It is unclear whether these assumptions overestimate or underestimate potential risks; and
- Chemicals with different target organs and end points add linearly to potential risks. This assumption probably results in an overestimation of risk.

The approach described in this Ecological Risk Assessment uses realistic assumptions wherever possible; reasonable and conservative assumptions were used when empirical data were unavailable. Consequently, potential ecological risks to OU-2 species are more likely to be overestimated rather than underestimated.

# CONTAMINANTS OF CONCERN IN SOIL AND GROUNDWATER FROM THE HUMAN HEALTH RISK ASSESSMENT OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

|                         | Source Area |          |                          |
|-------------------------|-------------|----------|--------------------------|
| Γ                       | DRMO Yard   |          | Building 1168 Leach Well |
| Chemical                | Groundwater | Soil     | Groundwater              |
| Arocior 1260            |             | x        |                          |
| Arsenic                 |             | x        | X                        |
| Barium                  | x           |          | x                        |
| Benzene                 | x           |          | X                        |
| Benzo(a)anthracene      |             | <u>x</u> |                          |
| Benzo(a)pyrene          |             | <u>x</u> |                          |
| Benzo(b)fluoranthene    |             | x        |                          |
| n-Butylbenzene          | x           |          | x                        |
| sec-Butylbenzene        | x           |          | x                        |
| Cadmium                 |             | x        |                          |
| Chloroform              | x           |          |                          |
| Chromium                | x           |          |                          |
| 4,4*-DDT                |             | x        |                          |
| 1,2-Dichlorobenzene     | x           |          |                          |
| 1,1-Dichlorobenzene     | x           |          |                          |
| 1,2-Dichloroethane      | x           |          |                          |
| 1,2(cis)-Dichloroethene | x           |          |                          |
| Dieldrin                |             | x        |                          |
| Diesel-range organics   | x           | x        | x                        |
| Disulfoton              | x           |          |                          |
| Ethylbenzene            |             |          | x                        |
| Gasoline-range organics | x           | X        | Х                        |
| Indeno(1,2,3-cd)pyrene  |             | X        |                          |
| Lindane                 |             | x        |                          |
| Manganese               | x           | x        | x                        |

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## CONTAMINANTS OF CONCERN IN SOIL AND GROUNDWATER FROM THE HUMAN HEALTH RISK ASSESSMENT OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

|                           | Source Area                   |         |                          |  |  |
|---------------------------|-------------------------------|---------|--------------------------|--|--|
|                           | DRMO Yard<br>Groundwater Soil |         | Building 1168 Leach Well |  |  |
| Chemical                  |                               |         | Groundwater              |  |  |
| Mercury                   |                               | x       |                          |  |  |
| Methylene chloride        | x                             |         |                          |  |  |
| 2-Methylnaphthalene       | x                             | <u></u> |                          |  |  |
| 2,3,7,8-TCDD (as<br>TEQs) | х                             | x       |                          |  |  |
| Tetrachloroethene         | x                             |         |                          |  |  |
| Toluene                   |                               |         | x                        |  |  |
| Trichloroethene           | x                             |         | x                        |  |  |
| o-Xylene                  | x                             |         | x                        |  |  |

Key:

DDT = Dichlorodiphenyldichloroethane.

DRMO = Defense Reutilization and Marketing Office.

TCDD = Tetrachlorodibenzo-p-dioxin.

TEQs = Toxicity equivalencies.

 $\mathbf{X}$  = Indicates that the chemical was selected as a chemical of concern for the specific site and media shown.

|                              | DRM               | VTIAL EXPOS<br>IO YARD SOU<br>OPERABLE U<br>WAINWRIGH | RCE AREA<br>JNIT 2<br>IT, ALASKA        | <u></u>                                      |                        |  |  |
|------------------------------|-------------------|-------------------------------------------------------|-----------------------------------------|----------------------------------------------|------------------------|--|--|
| Exposure Medium and<br>Route | Current<br>Worker | Potenti<br>Future<br>Worker                           | Eally Exposed Pop<br>Future<br>Resident | ulations<br>Future<br>Construction<br>Worker | Future Site<br>Visitor |  |  |
| Groundwater                  |                   |                                                       |                                         |                                              |                        |  |  |
| Ingestion                    | x x x             |                                                       |                                         |                                              |                        |  |  |
| Dermal contact               | x x x             |                                                       |                                         |                                              |                        |  |  |
| Air                          |                   |                                                       |                                         |                                              |                        |  |  |
| Inhalation of VOCs           |                   | ł                                                     | <u> </u>                                |                                              |                        |  |  |
| Inhalation of particulates   | x x               |                                                       |                                         |                                              |                        |  |  |
| Soil                         |                   |                                                       |                                         | _ <b>,</b>                                   | ·····                  |  |  |
| Ingestion                    | x                 | x                                                     |                                         |                                              | _                      |  |  |
| Dermal contact               | x                 | x                                                     |                                         | _                                            |                        |  |  |

Key:

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= Exposure of this population through this route is not likely to occur.

DRMO = Defense Reutilization and Marketing Office.

VOCs = Volatile organic compounds.

X = Exposure of this population through this route is probable.

|                                 | POTENTIAL<br>ING 1168 LEA<br>OPER | Table 4-3<br>EXPOSURE R<br>ACH WELL SO<br>ABLE UNIT 2<br>WRIGHT, AL | OURCE AREA                       |                        |
|---------------------------------|-----------------------------------|---------------------------------------------------------------------|----------------------------------|------------------------|
| Potentially Exposed Populations |                                   |                                                                     |                                  |                        |
| Exposure Medium and<br>Route    | Future<br>Worker                  | Future<br>Resident                                                  | Future<br>Construction<br>Worker | Future Site<br>Visitor |
| Groundwater                     |                                   |                                                                     |                                  |                        |
| Ingestion                       |                                   | x                                                                   | -                                | <u> </u>               |
| Dermal contact                  |                                   | x                                                                   |                                  |                        |
| Air                             |                                   | <u> </u>                                                            | <b></b>                          |                        |
| Inhalation of VOCs              | _                                 | x                                                                   |                                  |                        |

Key:

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- = Exposure of this population through this route is not likely to occur.

 $VOC_s = Volatile organic compounds.$ X = Exposure of this population through this route is probable.

Page 1 of 1

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| Table | 4-4 |
|-------|-----|
|-------|-----|

# EXPOSURE POINT CONCENTRATION AND STATISTICAL SUMMARY CHEMICALS OF POTENTIAL CONCERN SURFACE SOIL AT THE DRMO YARD OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

(mg/kg)

|                         | ·····                                |                                      |                       |                |
|-------------------------|--------------------------------------|--------------------------------------|-----------------------|----------------|
| Chemical                | Sitewide<br>Average<br>Concentration | Maximum<br>Detected<br>Concentration | Standard<br>Deviation | RME<br>95% UCL |
| 1,3,5-Trimethylbenzene  | 0.004                                | 0.12                                 | 0.013                 | 0.006          |
| 4,4'-DDT                | 0.055                                | 1.1                                  | 0.0129                | . 0.079        |
| Aroclor 1260            | 0.113                                | 1.1                                  | 0.156                 | 0.143          |
| Arsenic                 | 8.37                                 | 72.4                                 | 7.904                 | 9.85           |
| Benzo(a)anthracene      | 0.150                                | 0.32                                 | 58.557                | 160.97         |
| Benzo(a)pyrene          | 0.153                                | 0.35                                 | 60.802                | 164.77         |
| Benzo(b)fluoranthene    | 0.125                                | 0.35                                 | 57.736                | 136.31         |
| Cadmium                 | 0.68                                 | 8.1                                  | 1.044                 | 0.88           |
| Dieldrin                | 0.014                                | 1.0                                  | 113.058               | 35.66          |
| Diesel-range organics   | 55.682                               | 2,000                                | 251.039               | 103.402        |
| Gasoline-range organics | 4.62                                 | 130                                  | 15.098                | 7.49           |
| Indeno(1,2,3-cd)pyrene  | 0.098                                | 0.2                                  | 0.046                 | 0.106          |
| Lead                    | 35.46                                | 996                                  | 111.649               | 56.27          |
| Lindane                 | 0.002                                | 0.004                                | 0.0007                | 0.002          |
| Manganese               | 263.56                               | 440                                  | 77.887                | 278.27         |
| Mercury                 | 0.05                                 | 0.32                                 | 0.040                 | 0.06           |
| p-Isopropyltoluene      | 0.003                                | 0.051                                | 0.006                 | 0.004          |
| Thallium                | 0.12                                 | 0.13                                 | 0.027                 | 0.12           |
| 2,3,7,8-TCDD (TEQs)     | 2.54 pg/g                            | 97.4 pg/g                            | 11.460                | 4.77 pg/g      |

Note: The average and RME concentrations represent the arithmetic mean and the 95% UCL calculated on the sitewide surface soil data.

Key:

95% UCL = 95% upper confidence limit on the arithmetic mean.

DDT = Dichlorodiphenyidichloroethane.

DRMO = Defense Reutilization and Marketing Office.

mg/kg = Milligrams per kilogram.

- pg/g = Picograms per gram.
- RME = Reasonable maximum exposure.

TCDD = Tetrachlorodibenzo-p-dioxin.

TEQs = Toxicity equivalencies.

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## EXPOSURE POINT CONCENTRATION AND STATISTICAL SUMMARY CHEMICALS OF POTENTIAL CONCERN SUBSURFACE SOIL AT THE DRMO YARD OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA (mg/kg)

|                         |                                      | <u> </u>                             |                       |                |
|-------------------------|--------------------------------------|--------------------------------------|-----------------------|----------------|
| Chemical                | Sitewide<br>Average<br>Concentration | Maximum<br>Detected<br>Concentration | Standard<br>Deviation | RME<br>95% UCL |
| 1,3,5-Trimethylbenzene  | 0.0543                               | 5.600                                | 0.457                 | 0.104          |
| 4,4'-DDT                | 0.0120                               | 0.380                                | 0.029                 | 0.015          |
| Arocior 1260            | 0.0790                               | 0.590                                | 0.047                 | 0.085          |
| Arsenic                 | 5.38                                 | 19.6                                 | 3.643                 | 5.78           |
| Benzo(a)anthracene      | 0.0409                               | 0.045                                | 0.009                 | 0.042          |
| Benzo(a)pyrene          | 0.0441                               | 0.049                                | 0.011                 | 0.045          |
| Benzo(b)fluoranthene    | 0.0432                               | 0.048                                | 0.010                 | 0.044          |
| Cadmium                 | 0.42                                 | 2                                    | 0.311                 | 0.46           |
| Dieldrin                | 0.0016                               | 0.013                                | 0.001                 | 0.002          |
| Diesel-range organics   | 114.19                               | 9,600                                | 732.435               | 194.586        |
| Gasoline-range organics | 16.04                                | 690                                  | 63.206                | 22.98          |
| Lead                    | 7.59                                 | 130                                  | 9.326                 | 8.60           |
| Lindane                 | 0.004                                | 0.130                                | 0.009                 | 0.004          |
| Manganese               | 235.89                               | 2,420                                | 210.473               | 258.88         |
| Mercury                 | 0.06                                 | 2.3                                  | 0.152                 | 0.07           |
| p-Isopropyltoluene      | 0.025                                | 2.200                                | 0.172                 | 0.044          |
| Thallium                | 2.24                                 | 9.8                                  | 1.388                 | 2.39           |
| 2,3,7,8-TCDD (TEQs)     | 0.350 pg/g                           | 1.73 pg/g                            | 1.914                 | 0.584          |

Note: The average and RME concentrations represent the arithmetic mean and the 95% UCL calculated on the sitewide subsurface soil data.

Key:

95% UCL = 95% upper confidence limit on the arithmetic mean.

DDT = Dichlorodiphenyldichloroethane.

DRMO = Defense Reutilization and Marketing Office.

mg/kg = Milligrams per kilogram.

- pg/g = Picograms per gram.
- RME = Reasonable maximum exposure.
- TCDD = Tetrachlorodibenzo-p-dioxin.
- TEQs = Toxicity equivalencies.

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|                         |                                      |                                      | Table 4-6                                                                                                             |                                                    |                                                                                                                                                   |               |               |
|-------------------------|--------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| EXPOSURE POINT AN       |                                      | TATISTICAL S<br>GROUNDY<br>FORT      | STICAL SUMMARY OF CHEMICALS O<br>GROUNDWATER AT THE DRMO YARD<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(#g/L) | r CHEMICALS<br>HE DRMO YAI<br>JNIT 2<br>HT, ALASKA | STATISTICAL SUMMARY OF CHEMICALS OF POTENTIAL CONCERN FOR<br>GROUNDWATER AT THE DRMO YARD<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA<br>(μg/L) | AL CONCERN    | FOR           |
| Chemical                | Sitewide<br>Average<br>Concentration | Maximum<br>Detected<br>Concentration | Standard<br>Deviation                                                                                                 | RME<br>95% UCL                                     | RME<br>Area 1                                                                                                                                     | RME<br>Area 2 | RME<br>Area 3 |
| 1,2,4-Trimethylbenzene  | 15.881                               | 460                                  | 65.375                                                                                                                | 27.837                                             | 310,000                                                                                                                                           | QN            | 1.15          |
| 1,2-Dichlorobenzene     | 2.962                                | 38                                   | 3.805                                                                                                                 | 3.462                                              | QN                                                                                                                                                | QN            | QN            |
| 1,2-Dichlorocthane      | 0.524                                | 1.5                                  | 0.154                                                                                                                 | 0.552                                              | QN                                                                                                                                                | QN            | QN            |
| 1,3,5-Trimethylbenzene  | 6.845                                | 130                                  | 22.937                                                                                                                | 11.04                                              | 95.500                                                                                                                                            | QN            | 1.05          |
| 1,4-Dichlorobenzene     | 2.716                                | 12                                   | 2.365                                                                                                                 | 3.027                                              | QN                                                                                                                                                | QN            | QN            |
| 2-Methylnaphthalene     | 15.539                               | 240                                  | 39,433                                                                                                                | 23.084                                             | 155.000                                                                                                                                           | -             | QN            |
| Barium (total)          | 176                                  | 1,200                                | 150                                                                                                                   | 205                                                | 255                                                                                                                                               | 165           | 705           |
| Benzene                 | 0.825                                | 7.5                                  | 1.226                                                                                                                 | 1.049                                              | ND                                                                                                                                                | QN            | 6.7           |
| Butylhenzenc(scc)       | 1.276                                | 25                                   | 3.141                                                                                                                 | 1.850                                              | 18.0                                                                                                                                              | 3.2           | QN            |
| Chloroform              | 1.218                                | 8                                    | 1.537                                                                                                                 | 1.449                                              | 1.100                                                                                                                                             | DN            | QN            |
| Chromium (total)        | 25                                   | 510                                  | 69                                                                                                                    | 39                                                 | QN                                                                                                                                                | QN            | 160           |
| cis-1,2-Dichlorocthene  | 0.644                                | 7.3                                  | 0,802                                                                                                                 | 0.791                                              | QN                                                                                                                                                | QN            | QN            |
| Diesel-range organics   | 2,613                                | 41,000                               | 7,474                                                                                                                 | 3,856                                              | 32,000                                                                                                                                            | 2,700         | 250           |
| Disulfoton              | 0.122                                | 1.3                                  | 0.146                                                                                                                 | 0.150                                              | QN                                                                                                                                                | 0.315         | QN            |
| Gasoline-range organics | 531                                  | 28,000                               | 3,113                                                                                                                 | 1,104                                              | 14,470                                                                                                                                            | 250           | 235           |
|                         |                                      |                                      | -                                                                                                                     |                                                    |                                                                                                                                                   |               |               |

Page 1 of 3

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Page 2 of 3

| E POINT AND STATISTICAL SUMMAR<br>GROUNDWATER A<br>OPERAL<br>FORT WAINW<br>FORT WAINW<br>FORT WAINW<br>Concentration Deviation<br>1,648 13,000 1,64<br>0.913 2,000 1,64<br>0.913 30 2,000 1,64<br>1,648 13,000 2,6<br>1,648 13,000 2,6<br>1,700 2,6<br>1,700 2,6<br>1,700 2,700 2,6<br>1,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 |                     |                                      | -<br>-<br>-<br>-<br>-<br>-           | Table 4-6                                                                    |                                                    |                  |               |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|--------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------|---------------|---------------|
| Sitewide     Maximum     Standard     RME     Re     RME     RME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EXPOSURE            | <b>•</b>                             | TATISTICAL (<br>GROUND'<br>FOR1      | SUMMARY OF<br>WATER AT TI<br>OPERABLE (<br>OPERABLE (<br>WAINWRIGH<br>(#g/L) | ' CHEMICALS<br>HE DRMO YAI<br>JNIT 2<br>IT, ALASKA | OF POTENTI<br>RD | AL CONCERN    | FOR           |
| I,648     13,000     I,822     I,997     8,000     3,1       0     0.885     8.8     1.200     1,109     ND     1       0     0.913     3.0     3.253     1.508     1.526     1       1     0.913     30     3.253     1.508     15.250     1       1     16.786     530     64.905     25.306     204.000     1       1     16.786     530     64.905     25.306     204.000     1       6     477     170     170     26.250     11.277     119.500     1       6     4.004     200     22.095     8.045     109.500     10       6     4.004     200     23.365     9.355     ND     10       7     1.857     17     2.844     2.99.500     10     10       6     5.995     140     18.375     9.355     ND     10     10       7     9.306-7     8.656-6     1.598     1.21E-6 <t< th=""><th>Chemical</th><th>Sitewide<br/>Average<br/>Concentration</th><th>Maximum<br/>Detected<br/>Concentration</th><th>Standard<br/>Deviation</th><th>RME<br/>95% UCL</th><th>RME<br/>Area 1</th><th>RME<br/>Area 2</th><th>RME<br/>Area 3</th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chemical            | Sitewide<br>Average<br>Concentration | Maximum<br>Detected<br>Concentration | Standard<br>Deviation                                                        | RME<br>95% UCL                                     | RME<br>Area 1    | RME<br>Area 2 | RME<br>Area 3 |
| ide $0.885$ $8.8$ $1.220$ $1.109$ NDND $0.913$ $0.913$ $30$ $3.253$ $1.508$ $15.250$ $15.250$ $16.786$ $530$ $530$ $64.905$ $25.306$ $204.000$ $10.520$ $6.477$ $170$ $26.250$ $11.277$ $119.500$ $10.500$ $6.477$ $170$ $26.250$ $11.277$ $119.500$ $10.6.66$ $6.677$ $170$ $200$ $22.095$ $8.045$ $109.500$ $6.790$ $12.09$ $9.355$ $109.500$ $10$ $10$ $10$ $10$ $109.500$ $10$ $10$ $1.8.375$ $9.355$ $ND$ $10$ $10$ $1.8.375$ $9.355$ $ND$ $10$ $10$ $1.8.37$ $2.884$ $2.385$ $ND$ $10$ $10$ $9.306-7$ $8.65E-6$ $1.599$ $1.21E-6$ $4.30E-7$ $1.24$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Manganese (total)   | 1,648                                | 13,000                               | 1,822                                                                        | 1.66,1                                             | 8,000            | 3,150         | 950           |
| 0.913     30     3.253     1.508     15.250     15.250     1       16.786     530     64.905     25.306     204.000     1       6.477     170     26.250     11.277     119.500     1       ane     4.004     200     22.095     8.045     109.500     10       ane     5.995     140     18.375     9.355     ND     10       ane     5.995     140     18.375     9.355     ND     10       ane     1.857     17     2.384     2.385     10     10       ane     1.857     17     2.385     9.355     ND     10     10       ane     1.857     1.70     2.385     9.365     10     10     10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Methylene chloride  | 0.885                                | 8.8                                  | 1.220                                                                        | 1.109                                              | QN               | QN            | DN            |
| Interview     Interview <t< td=""><td>n-Butylbenzene</td><td>0.913</td><td>30</td><td>3.253</td><td>1.508</td><td>15.250</td><td>QN</td><td>QN</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | n-Butylbenzene      | 0.913                                | 30                                   | 3.253                                                                        | 1.508                                              | 15.250           | QN            | QN            |
| 6.477     170     26.250     11.277     119.500     1       4.004     200     22.095     8.045     109.500     10       5.995     140     18.375     9.355     ND     10       1.857     17     2.884     2.385     ND     10       9.30E-7     8.65E-6     1.599     1.21E-6     4.30E-7     1.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Naphthalene         | 16.786                               | 230                                  | 64.905                                                                       | 25.306                                             | 204.000          | QN            | QN            |
| 4.004     200     22.095     8.045     109.500       5.995     140     18.375     9.355     ND     10       1.857     17     2.884     2.385     ND     10       9.30E-7     8.65E-6     1.599     1.21E-6     4.30E-7     1.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o-Xylene            | 6.477                                | 170                                  | 26.250                                                                       | 11.277                                             | 119.500          | QN            | QN            |
| 5.995     140     18.375     9.355     ND     10       1.857     17     2.884     2.385     ND     10       9.30E-7     8.65E-6     1.599     1.21E-6     4.30E-7     1.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | p-Isopropyltolucne  | 4.004                                | 200                                  | 22.095                                                                       | 8.045                                              | 109.500          | QN            | QN            |
| 1.857     17     2.884     2.385     ND       9.30E-7     8.65E-6     1.599     1.21E-6     4.30E-7     1.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tetrachloroethene   | 5,995                                | 140                                  | 18.375                                                                       | 9,355                                              | QN               | 102.5         | 26.8          |
| 9.30E-7 8.65E-6 1.599 1.21E-6 4.30E-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trichloroethene     | 1.857                                | 17                                   | 2.884                                                                        | 2.385                                              | QN               | 3.4           | 3.7           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,3,7,8-TCDD (TEQs) | 9.30E-7                              | 8.65E-6                              | 1.599                                                                        | 1.21E-6                                            | 4.30E-7          | 1.24E-6       | 9.11E-7       |

Arca 1 RME represents the average of monitoring wells P34 and AP-5825, the wells with the highest number of maximum detections. Arca 2 RME represents the average of monitoring wells MW4 and P46, the area of maximum tetrachloroethene concentrations. Arca 3 RME represents the average of monitoring wells P04 and P05, the area of maximum benzene concentrations. Noles:

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Table 4-6 (Cont.)

Key:

95% UCL = 95% upper confidence limit on the arithmetic mean.
COPC = Chemical of potential concern.
DRMO = Defense Reutilization and Marketing Office.

μg/L = Micrograms per liter.
ND = Not detected.
RME = Reasonable maximum exposure.
TCDD = Tetrachlorodibenzo-p-dioxin.
TEQs = Toxicity equivalencies.

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Page 3 of 3

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| Table | 4-7 |
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## EXPOSURE POINT CONCENTRATION AND STATISTICAL SUMMARY OF CONTAMINANTS OF POTENTIAL CONCERN FOR GROUNDWATER AT BUILDING 1168 LEACH WELL OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

(μg/L)

|                         |                                      | (HE) 2.7                             |                       |             |
|-------------------------|--------------------------------------|--------------------------------------|-----------------------|-------------|
| Chemical                | Sitewide<br>Average<br>Concentration | Maximum<br>Detected<br>Concentration | Standard<br>Deviation | RME 95% UCL |
| 1,2,4-Trimethylbenzene  | 95.22                                | 350                                  | 145.940               | 234.368     |
| 1,3,5-Trimethylbenzene  | 40.78                                | 150                                  | 62.427                | 100.302     |
| Arsenic                 | 8.63                                 | 27                                   | 103                   | 185         |
| Barium                  | 238                                  | 350                                  | 0.100                 | 0.334       |
| Benzene                 | 2.12                                 | 5.1                                  | 1.733                 | 3.772       |
| Diesel-range organics   | 7,316                                | 34,000                               | 14,940                | 21,561      |
| Ethylbenzene            | 87.32                                | 310                                  | 130.681               | 211.919     |
| Gasoline-range organics | 4,365                                | 18,000                               | 7,669                 | 11,677      |
| Manganese (dissolved)   | 1,682                                | 4,400                                | 1,716.601             | 3,318.710   |
| n-Butylbenzene          | 6.77                                 | 16                                   | 7.557                 | 13.975      |
| o-Xylene                | 201.62                               | 1,000                                | 446.309               | 627.158     |
| p-lsopropyltoluene      | 11.24                                | 30                                   | 11.903                | 22.589      |
| sec-Butylbenzene        | 4.8                                  | 11                                   | 4.139                 | 8.747       |
| Toluene                 | 154.8                                | 770                                  | 343.907               | 482.703     |
| Trichloroethene         | 5.56                                 | 23                                   | 9.749                 | 14.850      |

Notes:

Both the average and RME concentrations represent the arithmetic mean and the 95% UCL of the five wells located closest to the leach well: AP-5747, -5751, -5752, -5754, and -6332.

Although cadmium was retained as a COPC based on the screening for all wells at Building 1158, cadmium was not detected in any of the five wells included in the EPC calculations.

Key:

95% UCL = 95% upper confidence limit on the arithmetic mean.

COPC = Chemical of potential concern.

EPC = Exposure point concentration.

 $\mu g/L =$  Micrograms per liter.

RME = Reasonable maximum exposure.

## SUMMARY OF INCREMENTAL CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARD INDICES FOR POTENTIALLY EXPOSED POPULATIONS AT THE DRMO YARD OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

|                             | Carcinogeni | c Risks         | Noncarcinogenic Hazard Indices |                  |  |
|-----------------------------|-------------|-----------------|--------------------------------|------------------|--|
| Receptor/Pathway            | Average     | RME             | Average                        | RME              |  |
| Surface soil ingestion      | 1.9E-08     | 3.4E-07         | 1.1E-04                        | 6.9E-04          |  |
| Surface soil dermal contact | 1.0E-08     | 1.2 <b>E-06</b> | 3.3E-05                        | 1.9E-03          |  |
| Total                       | 3.0E-08     | 1. <b>5E-06</b> | 1.4 <b>E-0</b> 4               | 2.6E-03          |  |
| Future Resident-Sitewide    |             |                 |                                |                  |  |
| Surface soil ingestion      | 4.6E-07     | 3.1E-06         | 8,4E-04                        | 5.3E-03          |  |
| Surface soil dermal contact | 7.0E-09     | 2.0E-06         | 2.5E-05                        | 2.8E-03          |  |
| Total                       | 4.7E-07     | 5.1E-06         | 8.6E-04                        | 8.1E-03          |  |
| Future Resident—Sitewide    |             |                 |                                |                  |  |
| Groundwater ingestion       | 5.5E-07     | 1.0E-05         | 3.4E-02                        | 7.1 <b>E-0</b> 1 |  |

Notes: Incremental risks are presented for only those receptors exceeding a total risk of 10<sup>4</sup> or a total hazard index of 1.0. Incremental risks are not presented for the three areas with elevated chemical concentrations.

Incremental risks are calculated after subtracting the background concentrations of inorganics.

Arsenic was not a chemical of potential concern in groundwater. Therefore, the groundwater-related incremental risks are identical to the total risks.

The soil and groundwater for OU-2 source areas was reviewed to identify whether hotspots (ares with chemical concentrations significantly elevated above that detected across the rest of the site) were present. There were no clearly discernible hotspots in soil at the DRMO Yard. Three potential groundwater hotspots were identified at the DRMO Yard. Data from two monitoring wells at each hotspot were evaluated independently from the sitewide groundwater database. The Area 1 hotspot included 19 of the maximum detected groundwater concentrations at the DRMO Yard. Areas 2 and 3 represented PCE and benzene hotspots, respectively. Potential human health risks associated with exposure to these hotspots was evaluated separately. Eleven monitoring wells were sampled during the RI at the Building 1168 source area. A subset of the five wells closest to the leachfield source were evaluated in the Risk Assessment. The other six wells were somewhat distant from the Building 1168 source area. Exposure to soil at Building 1168 was not evaluated in the Risk Assessment because of the nature of the release (into deep subsurface soil) and the limited soil data collected during the RI.

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## Table 4-8 (Cont.)

## Key:

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- DRMO = Defense Reutilization and Marketing Office.
  - OU = Operable Unit.
  - PCE = Tetrachloroethene.
  - RI = Remedial Investigation.
  - RME = Reasonable maximum exposure.

| Table 4-9<br>SUMMARY OF INCREMENTAL CARCINOGENIC RISKS AND<br>NONCARCINOGENIC HAZARD INDICES FOR POTENTIALLY EXPOSED<br>POPULATIONS AT BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA |                    |         |                                   |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|-----------------------------------|---------|--|
|                                                                                                                                                                                                                           | Carcinogenic Risks |         | Noncarcinogenic<br>Hazard Indices |         |  |
| Receptor/Pathway                                                                                                                                                                                                          | Average            | RME     | Average                           | RME     |  |
| Future Resident                                                                                                                                                                                                           |                    |         |                                   |         |  |
| Groundwater ingestion                                                                                                                                                                                                     | 1.1 <b>E-0</b> 7   | 3.2E-06 | 2.0E-02                           | 7.5E+00 |  |
| Groundwater dermal contact                                                                                                                                                                                                | 3.2E-11            | 3.6E-10 | 2.0E-05                           | 7.6E-05 |  |
| Groundwater inhalation of VOCs                                                                                                                                                                                            | 8.4E-08            | 2.3E-06 | 2.7E-02                           | 2.8E-01 |  |
| Total                                                                                                                                                                                                                     | 1.9E-07            | 5.5E-06 | 4.7E-02                           | 7.8E+00 |  |

Note: Incremental risks are calculated after subtracting the background concentrations of inorganics.

The soil and groundwater for OU-2 source areas was reviewed to identify whether hotspots (ares with chemical concentrations significantly elevated above that detected across the rest of the site) were present. There were no clearly discernible hotspots in soil at the DRMO Yard. Three potential groundwater hotspots were identified at the DRMO Yard. Data from two monitoring wells at each hotspot were evaluated independently from the sitewide groundwater database. The Area 1 hotspot included 19 of the maximum detected groundwater concentrations at the DRMO Yard. Areas 2 and 3 represented PCE and benzene hotspots, respectively. Potential human health risks associated with exposure to these hotspots was evaluated separately. Eleven monitoring wells were sampled during the RI at the Building 1168 source area. A subset of the five wells closest to the leachfield source were evaluated in the Risk Assessment. The other six wells were somewhat distant from the Building 1168 source area. Exposure to soil at Building 1168 was not evaluated in the Risk Assessment because of the nature of the release (into deep subsurface soil) and the limited soil data collected during the RI.

### Key:

OU = Operable Unit.

PCE = Tetrachloroethene.

RI = Remedial Investigation.

RME = Reasonable maximum exposure.

VOCs = Volatile organic compounds.

### 5.0 DESCRIPTION OF ALTERNATIVES

## 5.1 NEED FOR REMEDIAL ACTION

Remedial actions were deemed necessary with respect to groundwater at the DRMO Yard and Building 1168 Leach Well to comply with state and federal MCLs.

Actual or threatened releases of hazardous substances from the DRMO Yard and Building 1168 Leach Well source areas, if not addressed, may present substantial endangerment to public health, welfare, or the environment.

Groundwater is the only source of potable water for Fort Wainwright and surrounding communities. The aquifer is considered unconfined except in areas of permafrost. Additionally, the aquifer is considered highly transmissive, with large hydraulic conductivities. Remedial actions for soils were selected to remove volatile organic and petroleum compounds from the soils as quickly as possible in order to minimize soils acting as an ongoing source of contamination to the groundwater.

## 5.1.1 Defense Reutilization and Marketing Office Yard

The specific reasons for conducting remedial actions at the DRMO Yard source area are provided below, with the main focus being protection of groundwater:

- VOCs (i.e., benzene, PCE, and TCE) in groundwater at the DRMO Yard are present at concentrations above state and federal MCLs; and
- VOC- (e.g., PCE, benzene, and TCE) contaminated soils from unknown sources (within an identified area) are a continuing source of groundwater contamination, as discussed in the nature and extent section.

Petroleum-contaminated subsurface soils act as a continuing source of groundwater contamination because of shallow aquifer conditions and annual groundwater fluctuations. These contaminants are present at concentrations above State of Alaska cleanup levels for UST petroleum-contaminated soil.

Many chemicals were detected at the DRMO Yard; however, the above-listed VOCs and petroleum-related compounds were the only chemicals to exceed regulatory limits or to act as significant sources of risk to human health or the environment. Contamination related to petroleum, including DRO/GRO, has been referred to the Two-Party Agreement, except in instances where it is comingled with other contaminants of concern. Table 5-1 provides the rationale for discarding and retaining chemicals detected at the DRMO Yard source area.

### 5.1.2 Building 1168 Leach Well

The specific reasons for conducting remedial actions at the Building 1168 Leach Well source area are provided below, with the main focus being protection of groundwater:

- VOCs (benzene and TCE) in groundwater near the Building 1168 Leach Well are present at concentrations exceeded state and federal MCLs; and
- VOC-contaminated subsurface soils are a continuing source of groundwater contamination.

Petroleum-contaminated subsurface soils, including DRO/GRO, act as a continuing source of groundwater contamination because of shallow aquifer conditions and annual groundwater fluctuations. These contaminants are present at concentrations above State of Alaska cleanup levels for non-UST petroleum-contaminated soil.

Other chemicals were detected at the Building 1168 Leach Well source area; however, the above-listed VOCs and petroleum-related contaminants were the only chemicals to exceed regulatory limits or to act as significant sources of risk to human health or the environment. Table 5-2 provides the rationale for discarding and retaining chemicals detected at the Building 1168 Leach Well.

## 5.2 **REMEDIAL ACTION OBJECTIVES**

Remedial action objectives (RAOs) are based on federal and state applicable or relevant and appropriate requirements (ARARs). All groundwater RAOs are based on state and federal MCLs. Soil RAOs are based on State of Alaska cleanup levels for non-UST petroleum contamination. The RAOs for the DRMO Yard and Building 1168 Leach Well are as follows:

### Groundwater

- Restore groundwater to its beneficial use of drinking water quality within a reasonable time frame through source control;
- Reduce or prevent further migration of contaminated groundwater from the source areas;
- Prevent use of groundwater containing contaminants at levels above Safe Drinking Water Act and State of Alaska Drinking Water Standard MCLs and Alaska Water Quality Standards (AWQS), and limit highvolume pumping from the aquifer at the DRMO Yard until state and federal MCLs are achieved; and
- Use natural attenuation to attain AWQS (18 Alaska Administrative Code [AAC] 70) after reaching state and federal MCLs.

## Soil

• Prevent migration of soil contaminants to groundwater, which could result in groundwater contamination and exceedances of state and federal MCLs and AWQS (18 AAC 70).

# 5.3 SIGNIFICANT APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

A full list of ARARs is in Section 8. The following ARARs are the most significant regulations that apply to the remedy selections for the DRMO Yard and Building 1168 Leach Well:

- State and federal MCLs are relevant and appropriate for groundwater. These set the active remediation goals for groundwater. AWQS (18 AAC 70) is also applicable; and
- Alaska oil pollution regulations (18 AAC 75) are applicable, and Alaska guidelines for non-UST petroleum-contaminated soil are to be considered. These guidelines require cleanup of petroleumcontaminated soils to protect groundwater quality.

## 5.4 DESCRIPTION OF ALTERNATIVES

# 5.4.1 Defense Reutilization and Marketing Office Yard

Preliminary remedial alternatives for the DRMO Yard are described below. Numerous assumptions had to be made to determine cleanup time frames. These include consistent contaminant concentrations in soil and groundwater, treatment efficiencies similar to the currently operating SVE/AS system, and consistent groundwater flow direction.

## 5.4.1.1 Alternative 1: No Action

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The no-action alternative for the DRMO Yard source area involves no environmental monitoring, institutional controls, or remedial action and would leave the VOC-contaminated groundwater in its present state. The groundwater plume would continue to migrate in the direction of groundwater potentially migrating to the Chena River. Development of the noaction alternative is required by the NCP to provide a basis of comparison for the remaining alternatives, serving as a baseline reflecting current conditions without any cleanup effort. The no-action alternative was evaluated consistent with NCP requirements. No present worth, capital, operation and maintenance (O&M), or groundwater monitoring costs are associated with this no-action alternative.

# 5.4.1.2 Alternative 2: Institutional Controls and Natural Attenuation with Groundwater Monitoring/Evaluation

Institutional controls for the DRMO Yard source area would include land use and site access restrictions, and downgradient groundwater monitoring/evaluation that includes developing and implementing a long-term annual groundwater monitoring program for approximately eight wells (six existing and two new wells) for 30 years. Land use restrictions include limiting future use of the land to operations currently conducted at the DRMO Yard. Access restrictions include maintaining the existing fence around the DRMO Yard. Additional institutional controls would include a prohibition on refilling the DRMO Yard fire suppression tank from the existing potable water supply well until state and federal MCLs are met (except

in emergency situations). This restriction would effectively limit significant groundwater pumping from the aquifer, which could affect the existing groundwater contaminant plume.

The VOC-contaminated groundwater would remain as it exists at this source area, thereby not reducing contaminant concentrations other than through natural attenuation. However, institutional controls would decrease or minimize human exposure to contaminants. Periodic inspections and maintenance of the institutional controls would be conducted. Groundwater use restrictions would be incorporated into the Fort Wainwright Comprehensive Master Plan.

Natural attenuation or breakdown of contaminants occurs over time and is the reduction of contaminant concentrations in the environment through biological processes (aerobic and anaerobic biodegradation, and plant and animal uptake), physical phenomena (advection, dispersion, dilution, diffusion, volatilization, and sorption/desorption), and chemical reactions (ion exchange, complexation, and abiotic transformation). Remediation of VOC-contaminated soil and groundwater at the DRMO Yard source area by natural attenuation is expected to take more than 50 years.

Environmental monitoring and data evaluation would be performed periodically to obtain information regarding the effectiveness of the natural attenuation process in remediating the contamination, as well as to track the extent of contaminant migration from the site. To the extent practicable, this monitoring and evaluation will be conducted using six existing wells that are screened in geological zones hydraulically connected with the contamination source, supplemented by installing two groundwater monitoring wells when required. Upgradient wells would be used to provide information about the background groundwater quality at a source. Downgradient wells are used to monitor the extent of contaminant migration, change in flow direction, or occurrence of degradation products to protect downgradient drinking water wells.

Monitoring requirements would target VOCs, including the contaminants that were found to exceed the state and federal MCLs or their potential degradation products as specified in the RAOs for the DRMO Yard source area. To the extent practicable, monitoring data requirements will be coordinated or combined with those from other state or federal programs, such as RCRA and the Safe Drinking Water Act. Sample collection, analysis, and data evaluation would continue until sufficient data regarding changes in contaminant plume migration (including potential seasonal fluctuations in groundwater contaminant concentrations) and attenuation rates are gathered. The frequency of monitoring would be defined specifically during the Remedial Design phase. Changes to this remedy may be required as a result of the Remedial Design or construction phase. These changes will be addressed in the post-ROD documents.

The estimated present worth cost of this alternative is \$180,000, which includes \$34,000 for capital costs and \$146,000 for annual groundwater monitoring, based on an estimated 30-year time frame for groundwater monitoring for cost estimating purposes (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation and flow direction). However, monitoring would occur until state and federal MCLs are achieved, which would be more than 30 years.

# 5.4.1.3 Alternative 3: Soil Vapor Extraction, Groundwater Air Sparging, Natural Attenuation, and Groundwater Monitoring/Evaluation

This alternative involves treatment of VOC-contaminated soils in place via SVE, on-site treatment of groundwater via AS with natural attenuation, and groundwater monitoring/evaluation.

The SVE/AS system will inject air below the groundwater table to promote movement of VOCs from subsurface soils and groundwater and to collect the vapors by applying a vacuum through a series of vapor extraction wells. The SVE/AS system would be installed to provide active treatment out to the 20-ppb isocontour of the defined groundwater plume (see Figure 5-1). Treatment beyond this isocontour out to the state and federal MCL of 5 ppb would be through natural attenuation, except for a line of curtain wells near Channel B to prevent contaminants from entering the surface water.

For cost analysis purposes, the major components of the enhanced SVE system are assumed to include approximately 21 driven-point extraction wells; below-ground, horizontal polyvinyl chloride (PVC) piping, valves, sampling ports, and vacuum gauges; 10 extraction blowers; an air/water separator with storage tank; and a heating system for the prefabricated buildings and SVE piping. The blowers would be housed in prefabricated buildings. The SVE system would consist of explosion-proof equipment and automatic safety devices that would deactivate the system if the treatment building interior atmosphere were to exceed 20% of the lower explosive limit. Treatment of exhaust gases will be accomplished by directing these gases through a granulated activated carbon filter unit or air mixing chamber if sampling results exceed regulatory limits. Any water extracted from the air/water separator would be collected in a drum or tank, treated via carbon filtration, and discharged to the sanitary sewer system. The major components of the AS system would include 62 driven-point sparging wells; below-grade, horizontal PVC piping; and 10 centrifugal injection blowers. Changes to this remedy may be required as a result of the Remedial Design phase. These changes will be addressed in post-ROD documents.

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Air will be injected below the water table to strip volatiles from groundwater and soil in the saturated and unsaturated zones, respectively. Volatiles are purged to the unsaturated zone, where they will be collected in the vacuum extraction wells. In addition, the vacuum extraction wells create a negative pressure in the unsaturated soil, which enhances contaminant mobility. From the extraction wellhead, the VOCs are routed to the treatment facility. Under current regulations, no off-gas treatment is required. However, off-gas treatment will occur until it is determined that off-gases are safe. The SVE discharge will be monitored during initial operations to determine whether filtration or dispersion of off-gases is necessary.

Regular monitoring of the enhanced SVE system will be conducted to ensure and document its effectiveness and optimize the progress of cleanup. Vapor samples and airflow readings taken from the soil vapor monitoring probes and system exhaust sampling ports will be utilized to monitor the progress of cleanup, to estimate the volume of VOCs removed by the system, and to establish a timetable and cost estimate for completion of the project.

Historically, SVE/AS remediation has been successful at remediating soil and groundwater to the state and federal MCLs within several months to two years, dependent on many conditions including initial contaminant concentrations. Because of climatic conditions at Fort Wainwright, it is estimated that SVE/AS treatment would operate for three years to meet state and federal MCLs in the active treatment zone and 10 years in the remainder of the groundwater plume, which is located beyond the 20-ppb isocontour.

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Remediation of VOC-contaminated soil and groundwater at the DRMO Yard source area by natural attenuation is expected to take more than 50 years.

The estimated present worth cost of this alternative would be approximately \$2,195,000, which comprises \$1,426,000 for capital costs, \$680,000 for annual O&M costs, and \$89,000 for annual groundwater monitoring. For costing purposes, it was assumed that a groundwater monitoring program would be implemented and that there would be one monitoring event per year (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). The estimated time frame for cleanup goals to be achieved and for monitoring to be performed is 15 years. These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

## 5.4.1.4 Alternative 4: Alternative 3 Plus Excavation of Surface Soils Containing Benzo(a)pyrene and Disposal at the Fort Wainwright Landfill

This alternative supplements the remedial measures included under Alternative 3. One thousand nine hundred cubic yards of benzo(a)pyrene-contaminated surface soils would be excavated from the DRMO Yard and transported to the Fort Wainwright Landfill. Clean fill would replace the excavated material. Excavation and disposal of benzo(a)pyrene-contaminated soil would require one month. See DRMO Yard Alternative 3 above for a description of SVE/AS and groundwater monitoring. Soil contaminated with benzo(a)pyrene does not contribute to groundwater contamination and falls within the acceptable risk range for human health.

The estimated present worth cost of this alternative would be approximately \$2,269,000, which comprises \$1,498,000 for capital costs, \$682,000 for annual O&M costs, and \$89,000 for annual groundwater monitoring. For costing purposes, it was assumed that there would be one monitoring event per year (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). The estimated time frame for cleanup goals to be achieved and for monitoring to be performed is 15 years. These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

## 5.4.1.5 Alternative 5: Alternative 3 Plus Excavation and On-Site Solidification of Benzo(a)pyrene-Contaminated Soils

On-site solidification involves encapsulating benzo(a)pyrene-contaminated soils in concrete. Benzo(a)pyrene-contaminated soil will be excavated, solidified using a Portland cement matrix slurry, and disposed of on site. Excavation and solidification of benzo(a)pyrene-contaminated soils would require three months. See DRMO Yard Alternative 3 above for a description of an SVE/AS system and groundwater monitoring. The estimated present worth cost of this alternative would be approximately \$2,892,000, which comprises \$2,062,000 for capital costs, \$698,000 for annual O&M costs, and \$132,000 for annual groundwater monitoring. For costing purposes, one monitoring event per year was assumed (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). The estimated time frame for cleanup goals to be achieved and for monitoring to be performed is 15 years. These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

## 5.4.2 Building 1168 Leach Well

Preliminary remedial alternatives for the Building 1168 Leach Well source area are described below. Numerous assumptions had to be made to determine cleanup time frames. These include consistent contaminant concentrations in soil and groundwater, treatment efficiencies similar to the currently operating SVE/AS system, and consistent groundwater flow.

## 5.4.2.1 Alternative 1: No Action

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The no-action alternative for the Building 1168 Leach Well source area involves no environmental monitoring, institutional controls, or remedial action and would leave the VOCcontaminated soil and groundwater and petroleum-contaminated soils in their present state. Operation of the existing pilot-scale treatability system would be discontinued. The contaminated soils will continue to be subjected to infiltration and vertical seepage, which would cause further contamination of the groundwater. The groundwater plume will continue to migrate in the direction of groundwater flow. Development of the no-action alternative is required by the NCP to provide a basis of comparison for the remaining alternatives, serving as a baseline reflecting current conditions without any cleanup effort. The no-action alternative was evaluated consistent with NCP requirements. No present worth capital, O&M, or groundwater monitoring costs are associated with this no-action alternative.

## 5.4.2.2 Alternative 2: Institutional Controls and Natural Attenuation

Institutional controls for the Building 1168 Leach Well source area will include well installation restrictions, land use and site access restrictions, and downgradient groundwater monitoring/evaluation that includes developing and implementing a long-term annual groundwater monitoring program for approximately four wells (two existing and two new wells) for 30 years. Operation of the existing pilot-scale treatability study system would be discontinued. Land use restrictions include limiting future use of the land to operations being conducted at the Building 1168 Leach Well. The VOC-contaminated groundwater would remain as it exists at this source area, thereby not reducing contaminant concentrations other than through natural attenuation. However, institutional controls would decrease or minimize human exposure to contaminants. Periodic inspections and maintenance of the institutional controls would be conducted. Groundwater use restrictions would be incorporated into the Fort Wainwright Comprehensive Master Plan.

Natural attenuation or breakdown of contaminants occurs over time and is the reduction of contaminant concentrations in the environment through biological processes (aerobic and anaerobic biodegradation, and plant and animal uptake), physical phenomena (advection,

dispersion, dilution, diffusion, volatilization, and sorption/desorption), and chemical reactions (ion exchange, complexation, and abiotic transformation). Remediation of VOC-contaminated soil and groundwater at the Building 1168 Leach Well source area by natural attenuation is expected to take more than 50 years.

Environmental monitoring and data evaluation would be performed to obtain information regarding the effectiveness of the natural attenuation process in remediating the contamination, as well as to track the extent of contaminant migration from the site. To the extent practicable, this monitoring and evaluation would be conducted using four wells that are screened in geological zones hydraulically connected with the contamination source, supplemented by installing two additional groundwater monitoring wells if required. Upgradient wells would be used to provide information about the background groundwater quality at a source. Downgradient wells are used to monitor the extent of contaminant migration, change in flow direction, or occurrence of degradation products to protect downgradient drinking water wells.

Monitoring requirements would target VOCs, including contaminants that were found to exceed the state and federal MCLs or their potential degradation products, as specified in the RAOs for the Building 1168 Leach Well source area. Sample collection, analysis, and data evaluation would continue until sufficient data regarding changes in contaminant plume migration (including potential seasonal fluctuations in groundwater contaminant concentrations) and attenuation rates are gathered. The frequency of monitoring would be defined during the post-ROD activities.

The estimated present worth cost of this alternative is \$130,000, which comprises \$49,000 for capital costs and \$81,000 for annual groundwater monitoring, based on an estimated 30-year time frame for groundwater monitoring for cost estimating purposes (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation and flow direction). However, monitoring would occur until state and federal MCLs are achieved, which would be more than 30 years.

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These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

# 5.4.2.3 Alternative 3: Soil Vapor Extraction, Groundwater Air Sparging, and Monitoring

A pilot-scale treatability system is operating at the source area to test the effectiveness of the technologies included in this alternative. This alternative would upgrade the existing system to a full-scale system. The saturated zone active treatment area would be expanded by a factor of six to cover the entire contaminated saturated zone. System modifications would include installation of approximately four additional sparge points and one additional SVE point, increasing the capacity of sparging, extraction, and control equipment. System modification also would require installation of an additional blower to compensate for the increased head losses of the additional wells and piping.

Air will be injected below the water table to strip volatiles from groundwater and soil in the saturated and unsaturated zones, respectively. Volatiles are purged to the unsaturated zone,

where they will be collected in the vacuum extraction wells. In addition, the vacuum extraction wells create a negative pressure in the unsaturated soil, which enhances contaminant mobility. From the extraction wellhead, the VOCs are routed to the treatment facility. Under current regulations, no off-gas treatment is required. However, off-gases were treated initially through a carbon adsorption system. Use of the treatment system was discontinued because air modeling using a worst-case scenario indicated that treatment was unnecessary. This system can be restarted if analytical results indicate that off-gas treatment is necessary.

Regular monitoring of the enhanced SVE system will be conducted to ensure and document its effectiveness and optimize the progress of cleanup. Vapor samples and airflow readings taken from the soil vapor monitoring probes and system exhaust sampling ports will be utilized to monitor the progress of cleanup, to estimate the volume of VOCs removed by the system, and to establish a timetable and cost estimate for completion of the project.

Historically, SVE/AS remediation has been successful at remediating soil and groundwater to state and federal MCLs within several months to two years, depending on many conditions including initial contaminant concentrations. Based on the operational data acquired since the start of the pilot-scale treatment system in 1994, it is estimated that SVE/AS treatment would operate an additional three years to meet state and federal MCLs in the active treatment zone. State and federal MCL exceedances outside the active treatment zone are anticipated to attenuate naturally, partially in response to the increased downgradient dissolved oxygen availability associated with the active treatment system.

Monitoring requirements will target the contaminants that were found to exceed the state and federal MCLs as specified in the RAOs for the Building 1168 Leach Well source area. Sample collection, analysis, and data evaluation would continue until sufficient data regarding changes in contaminant plume migration (including potential seasonal fluctuations in groundwater contaminant concentrations) and attenuation rates are gathered. To the extent practicable, monitoring data requirements will be coordinated or combined with those from other state or federal programs, such as RCRA and the Safe Drinking Water Act. The frequency of monitoring would be defined specifically in post-ROD documents.

This alternative would achieve remediation goals in approximately three years. Groundwater monitoring would be conducted 10 years. For costing purposes, one well would be installed for the SVE system and four wells would be installed for the AS system for an operational period of three years. The estimated present worth cost of this alternative would be approximately \$269,000, which comprises \$174,000 for capital, \$66,000 for annual O&M costs, and \$29,000 for annual groundwater monitoring (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

# 5.4.2.4 Alternative 4: Alternative 3 Plus Excavation and Low-Temperature Thermal Desorption of Contaminated Unsaturated Soil

This alternative is similar to Alternative 3, except that approximately 1,400 cubic yards of soil contaminated with DRO; GRO; and benzene, toluene, ethylbenzene, and total xylenes will be excavated and treated using a low-temperature thermal desorption (LTTD) process. This

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alternative would be implemented only if SVE/AS could not reduce contaminant concentrations in the unsaturated zone to below RAOs. LTTD involves heating excavated soils in a rotary kiln dryer to release organic contaminants and moisture in the form of gases. The gases go through a series of cooling and condensing stages before they are vented.

Excavation would be conducted to an estimated depth of 19 feet below present grade, which would require shoring. Approximately 4,400 cubic yards of uncontaminated overburden material would need to be removed. Clean soil would replace the 1,300 cubic yards of excavated soil. The treated soil would be disposed of at the Fort Wainwright Landfill.

See Alternative 3 above for descriptions of SVE and groundwater AS and for a description of groundwater monitoring.

Excavation and LTTD treatment would require one month. The estimated present worth cost of this alternative would be approximately \$559,000, which comprises \$452,000 for capital, \$78,000 for annual O&M costs, and \$29,000 for annual groundwater monitoring (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

# 5.4.2.5 Alternative 5: Alternative 3 Plus Excavation and Engineered Pile Treatment (Biopile and Vapor Extraction Pile) of Contaminated Unsaturated Soil

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This alternative is similar to Alternative 3, except that excavated soil is treated using engineered pile treatment at a nearby location. There are two options for the engineered pile treatment of the contaminated unsaturated soil: a vapor extraction pile and a biopile. Both options are ex situ remedies and would require excavation, as described in Building 1168 Leach Well Alternative 4. A vapor extraction pile uses the same processes as in situ vapor extraction, but the processes are applied to a pile in a lined cell. Blowers built into a piping system inject and extract air to strip off VOCs and petroleum hydrocarbons from the soil. Biopile or biocell treatment is a process that uses naturally occurring bacteria in soil to break down VOCs and petroleum hydrocarbons. The excavated soil is placed in lined piles and is aerated using an air injection system.

See Alternative 3 above for descriptions of SVE and groundwater AS and for a description of groundwater monitoring and evaluation requirements.

The estimated time frame for cleanup goals to be achieved is three years. The estimated present worth cost of this alternative would be \$498,000, which comprises \$350,000 for capital costs, \$119,000 for annual O&M costs, and \$29,000 for annual groundwater monitoring (monitoring may be more frequent during the initial post-ROD years to address seasonal changes in groundwater elevation, flow direction, and treatment system efficiency). These are estimated costs. Actual costs are likely to be within +50% to -30% of these cost values.

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## Table 5-1

## SELECTION OF CHEMICALS OF CONCERN FOR REMEDIAL EVALUATION IN THE FEASIBILITY STUDY FOR DRMO YARD OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

| Chemicals of Potential<br>Concern to the FS | Basis for Discarding or Retaining as Chemical of Concern to the FS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                                           | e found in soils and were discarded or carried through the FS as contaminants<br>on. This is based on the following reasons:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Soil                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Benzo(a)pyrene                              | Retain: Concentrations are within the $10^{-4}$ to $10^{-6}$ risk range.<br>Benzo(a)pyrene was found in surface soils and is not considered a threat to groundwater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PCBs                                        | Discard: The maximum concentration of PCBs detected in soil at the DRMO Yard source area is 1.3 mg/kg, significantly less than the Toxic Substances Control Act (TSCA 1987) most restrictive cleanup level of 10 mg/kg.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dioxin                                      | Discard: Concentrations do not cause exceedance of 10 <sup>-4</sup> cancer risk for<br>site worker, future site worker, future residents, future construction<br>workers, and future recreational users/site visitors. In addition, dioxin is<br>ubiquitous throughout the DRMO Yard source area, at very low<br>concentrations. Analytical results do not indicate that a dioxin "hot spot"<br>exists.                                                                                                                                                                                                                                        |
| DRO                                         | Discard: DRO in the DRMO Yard soils is attributed to surface spills and UST releases and will be addressed in a separate Two-Party Agreement between the Army and ADEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| GRO                                         | Discard: GRO in the DRMO Yard soils is attributed to surface spills and UST releases and will be addressed in a separate Two-Party Agreement between the Army and ADEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dieldrin                                    | Discard: The HRA concluded that cancer risk presented by dieldrin<br>exceeded $10^{-6}$ for two exposure pathways (current/future worker RME<br>dermal contact with surface soil and future resident RME dermal contact<br>with surface soil). However, resampling of surface soil in August 1995 in<br>five locations around the only sampling location where dieldrin was<br>previously detected indicates that dieldrin concentrations are not detectable<br>or are two to three orders of magnitude below 1 mg/kg (1 mg/kg<br>corresponds to a $10^{-4}$ cancer risk to future residents). Dieldrin was<br>detected in six of 314 samples. |
| Arsenic                                     | Discard: Concentrations cause exceedance of $10^{-6}$ cancer risk for two<br>exposure pathways (current/future worker RME and future resident RME<br>and average exposure ingestion of surface soil) but was not considered a<br>COC because of documented elevated concentrations of arsenic in<br>background surface soil samples. Recalculation of risks after subtracting<br>background concentrations results in a cancer risk of less than $10^{-6}$ .                                                                                                                                                                                   |

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## Table 5-1

# SELECTION OF CHEMICALS OF CONCERN FOR REMEDIAL EVALUATION IN THE FEASIBILITY STUDY FOR DRMO YARD OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

| Chemicals of Potential<br>Concern to the FS                                                                                                                                                   | Basis for Discarding or Retaining as Chemical of Concern to the FS                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| The following contaminants were found in groundwater and were discarded or carried through the FS as contaminants of concern for remedial evaluation. This is based on the following reasons: |                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| Groundwater                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| Benzene                                                                                                                                                                                       | Retain: Concentrations cause exceedance of MCL.                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| Trichloroethene                                                                                                                                                                               | Retain: Concentrations measured in excess of MCL.                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Tetrachloroethene                                                                                                                                                                             | Retain: Concentrations cause exceedance of MCL.                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| Manganesc                                                                                                                                                                                     | Discard: Concentrations cause exceedance of hazard index of 1.0 for one<br>exposure pathway (future resident RME ingestion) but was not considered<br>a COC because of documented elevated concentrations of manganese in<br>background groundwater samples. Recalculation of risks after subtracting<br>background concentrations results in a hazard index of less than 1.0 for<br>the entire DRMO Yard. |  |  |  |
| Chloroform                                                                                                                                                                                    | Discard: Concentrations cause slight exceedance of 10 <sup>-6</sup> cancer risk for<br>one exposure pathway (future resident RME inhalation) but was not<br>considered a COC because concentrations did not exceed MCL.                                                                                                                                                                                    |  |  |  |
| Dioxin                                                                                                                                                                                        | Discard: Concentrations cause exceedance of 10 <sup>-6</sup> cancer risk for one<br>exposure pathway (future resident RME ingestion) but was not considered<br>a COC because concentrations did not exceed MCL.                                                                                                                                                                                            |  |  |  |
| 1,4-Dichlorobenzene                                                                                                                                                                           | Discard: Concentrations cause exceedance of 10 <sup>-6</sup> cancer risk for one exposure pathway (future resident RME ingestion) but was not considered a COC because concentrations did not exceed MCL.                                                                                                                                                                                                  |  |  |  |

Note: Breakdown products of the contaminants of concern were not in concentrations that exceeded action levels; however, these will be included in groundwater monitoring.

#### Key:

- ADEC = Alaska Department of Environmental Conservation.
- Army = United States Army.
- COC = Chemical of concern.
- DRMO = Defense Reutilization and Marketing Office.
  - DRO = Diesel-range organics.
    - FS = Feasibility Study.
  - GRO = Gasoline-range organics.
  - HRA = Human Health Risk Assessment.
  - MCL = Maximum contaminant level.
- mg/kg = Milligrams per kilogram.
- PCBs = Polychlorinated biphenyls.
- RME = Reasonable maximum exposure.
- TSCA = Toxic Substances Control Act.
- UST = Underground storage tank.

# Table 5-2

# SELECTION OF CHEMICALS OF CONCERN TO THE FEASIBILITY STUDY FOR BUILDING 1168 LEACH WELL SOURCE AREA OPERABLE UNIT 2 FORT WAINWRIGHT, ALASKA

| Chemicals of<br>Potential Concern | Discard or Retain as Chemical of Concern to the FS and Bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Soil                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| DRO                               | Retain: Concentrations exceed ADEC guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| GRO                               | Retain: Concentrations exceed ADEC guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| BTEX                              | Retain: Concentrations exceed ADEC guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Groundwater                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Benzene                           | Retain: Concentrations cause exceedance of MCL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Trichloroethene                   | Retain: Concentrations cause exceedance of MCL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Manganese                         | Discard: Concentrations cause exceedance of hazard index of 1.0 for one exposure<br>pathway (future resident RME and average ingestion) but was not considered a COC<br>because of documented elevated concentrations of manganese in background<br>groundwater samples. Recalculation of risks after subtracting background<br>concentrations of manganese and arsenic results in a hazard index of less than 1.0.                                                                                                                                                                                                                                                                          |  |
| Arsenic                           | Discard: Concentrations cause exceedance of hazard index of 1.0 for one exposure<br>pathway (future resident RME and average ingestion). Arsenic concentrations also<br>cause exceedance of 10 <sup>-6</sup> cancer risk for one exposure pathway (future resident RME<br>and average ingestion). However, arsenic is not considered a COC because of<br>documented elevated concentrations of arsenic in background groundwater samples.<br>Recalculation of risks after subtracting background concentrations of manganese and<br>arsenic results in a hazard index of less than 1.0. Background arsenic concentrations<br>still contribute to cancer risk in excess of 10 <sup>-6</sup> . |  |

Note: Breakdown products of the contaminants of concern were not in concentrations that exceeded action levels; however, these will be included in groundwater monitoring.

Key:

ADEC = Alaska Department of Environmental Conservation.

- BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
- COC = Chemical of concern.
- DRO = Diesel-range organics.
- FS = Feasibility Study.
- GRO = Gasoline-range organics.
- MCL = Maximum contaminant level.
- RME = Reasonable maximum exposure.

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# 6.0 SUMMARY OF COMPARATIVE ANALYSIS OF ALTERNATIVES

In accordance with federal regulations, the five alternatives for the DRMO Yard source area and five other alternatives for the Building 1168 Leach Well source area were evaluated based on the nine criteria presented in the NCP.

# 6.1 DEFENSE REUTILIZATION AND MARKETING OFFICE YARD SOURCE AREA (COMPARATIVE ANALYSIS OF ALTERNATIVES)

### 6.1.1 Threshold Criteria

# 6.1.1.1 Overall Protection of Human Health and the Environment

Alternatives 3, 4, and 5 would provide the greatest protection to human health and the environment by actively treating contaminated soil and groundwater. Alternatives 1 and 2 would rely on natural processes to slowly decrease contaminant concentrations in the soil and groundwater. Alternatives 1 and 2 would provide no treatment and would not be protective of human health or the environment.

# 6.1.1.2 Compliance with Applicable or Relevant and Appropriate Requirements

Alternatives 2, 3, 4, and 5 are expected to achieve regulatory requirements. Alternatives 3, 4, and 5 include active soil and groundwater treatment to achieve state and federal MCLs and would be expected to achieve these standards more rapidly than Alternative 2. Alternative 2 would rely on natural processes that slowly decrease soil and groundwater contamination. Alternative 1 would not comply with ARARs. AWQS would be achieved through natural attenuation under all of the alternatives.

## 6.1.2 Main Balancing Criteria

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## 6.1.2.1 Long-Term Effectiveness and Permanence

Alternatives 3, 4, and 5 would involve permanent and active reduction of soil and groundwater contamination and would achieve long-term effectiveness. Alternatives 4 and 5 would permanently remove the benzo(a)pyrene-contaminated soil. None of the contaminants would be addressed by Alternatives 1 and 2, except through natural processes. Therefore, Alternatives 1 and 2 would provide the least effective long-term permanence.

# 6.1.2.2 Reduction of Toxicity, Mobility, and Volume Through Treatment

Alternatives 3, 4, and 5 would involve treatment technologies that reduce the toxicity and mobility of VOC-contaminated soil and groundwater. Alternative 4 would slightly increase the volume of contaminated soil and would not decrease toxicity or mobility of benzo(a)pyrene. Alternative 5 would reduce the mobility and significantly increase the volume of contaminated material. Alternatives 1 and 2 would not reduce the toxicity, mobility, or volume of the contaminants through treatment.

## 6.1.2.3 Short-Term Effectiveness

Alternatives 3, 4, and 5 would pose some short-term potential risks to on-site workers during the estimated three months for groundwater treatment installation and soil excavation (Alternatives 4 and 5). These risks could be minimized by engineering controls. These alternatives may take up to 10 years to achieve state and federal MCLs. The excavation and disposal in Alternative 4 would require one month. Solidification (Alternative 5) would require approximately three months.

Risks associated with groundwater contamination are equal for Alternatives 3, 4, and 5. Because Alternatives 3, 4, and 5 actively treat soil and groundwater contamination, it is expected that contaminant levels would be reduced during the estimated three-year cleanup period. Alternatives 1 and 2 do not actively treat soil contamination; therefore, risks would not change over time except through natural attenuation. Under Alternative 1, no monitoring would be conducted to determine the groundwater remediation time frame. However, it is expected that the time frame to reach remedial goals will be similar to Alternative 2—natural attenuation with groundwater monitoring—which is estimated to exceed 50 years.

Risks associated with groundwater contamination are equal for Alternatives 3, 4, and 5. Because Alternatives 3, 4, and 5 actively treat soil contamination, it is expected that groundwater contaminant levels would be reduced during the estimated three-year cleanup period. Alternatives 1 and 2 do not actively treat soil contamination; therefore, risks would not change over time, except through natural attenuation.

## 6.1.2.4 Implementability

All alternatives would use readily available technologies and would be feasible to construct. Alternatives 1 and 2 would be readily implementable because they would require no additional action other than monitoring or institutional controls. A pilot-scale test study or field test would be conducted before full-scale implementation of the SVE and AS systems proposed in Alternatives 3, 4, and 5. A solidification treatability study would be required before implementing Alternative 5.

## 6.1.2.5 Cost

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The estimated present worth cost for each alternative evaluated for the DRMO Yard source area is shown in Table 6-1. Detailed baseline cost estimates are included in Appendix D.

Based on the information available at the time the alternatives were developed, the estimated costs for each alternative evaluated for the DRMO source area are in Table 6-1. Actual costs are likely to be within +50% to -30% of the values on the table. Present worth is based on a 5% discount rate over 30 years.

### 6.1.3 Modifying Criteria

### 6.1.3.1 State Acceptance

ADEC has been involved with the development of remedial alternatives for OU-2 and agrees
with the selected alternative for the DRMO Yard source area.

#### 6.1.3.2 Community Acceptance

Although no official comments were received, community response to the preferred alternatives was generally positive. Community response to the remedial alternatives is presented in the Responsiveness Summary, which addresses comments received during the public comment period.

# 6.2 BUILDING 1168 LEACH WELL (COMPARATIVE ANALYSIS OF ALTERNATIVES)

#### 6.2.1 Threshold Criteria

# 6.2.1.1 Overall Protection of Human Health and the Environment

Alternatives 3, 4, and 5 would provide the greatest protection to human health and the environment by actively treating contaminated soil and groundwater. Alternatives 1 and 2 would provide no treatment and would not be protective of human health or the environment.

# 6.2.1.2 Compliance with Applicable or Relevant and Appropriate Requirements

Alternatives 2, 3, 4, and 5 are expected to achieve regulatory requirements. Alternatives 3, 4, and 5 include active groundwater treatment to achieve state and federal MCLs and would be expected to achieve these standards more rapidly than Alternative 2. Alternative 2 would rely on natural processes that slowly decrease soil and groundwater contamination. Alternative 1 would not comply with ARARs. AWQS would be achieved through natural attenuation under Alternatives 3, 4, and 5.

#### 6.2.2 Balancing Criteria

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# 6.2.2.1 Long-Term Effectiveness and Permanence

Alternatives 3, 4, and 5 would involve permanent and active reduction of soil and groundwater contamination and would achieve long-term effectiveness. Alternatives 4 and 5 would permanently remove the VOC-contaminated soil by excavation and treatment. None of the contaminants would be addressed by Alternatives 1 and 2, except through natural processes. Therefore, Alternatives 1 and 2 would provide the least effective long-term permanence.

# 6.2.2.2 Reduction of Toxicity, Mobility, and Volume Through Treatment

Alternatives 3, 4, and 5 would involve treatment technologies that would reduce the toxicity and mobility of contaminants in soil and groundwater. Alternatives 4 and 5 would reduce the volume of the contaminated soil by excavation and treatment. Alternatives 1 and 2 would not reduce the toxicity, mobility, or volume of the contaminants through treatment.

#### 6.2.2.3 Short-Term Effectiveness

Alternatives 3, 4, and 5 would pose some short-term potential risks to on-site workers during the estimated three months for groundwater treatment installation and soil excavation (Alternatives 4 and 5). These risks could be minimized by engineering controls. These alternatives may take up to three years to achieve groundwater cleanup to state and federal MCLs. The excavation and LTTD portion of Alternative 4 would be expected to require one field season. The engineered pile treatment portion of Alternative 5 would require five years.

Risks associated with groundwater contamination are equal for Alternatives 3, 4, and 5. Because Alternatives 3, 4, and 5 actively treat soil and groundwater contamination, it is expected that contaminant levels would be reduced during the estimated three-year cleanup period. Under Alternative 1, no monitoring would be conducted to determine the groundwater remediation time frame. However, it is expected that the time frame for remediation will be similar to Alternative 2—natural attenuation with groundwater monitoring—which is estimated to exceed 50 years. Alternatives 1 and 2 do not actively treat soil contamination; therefore, risks would not change over time except through natural attenuation.

#### 6.2.2.4 Implementability

All alternatives would use readily available technologies and would be feasible to construct. The SVE and AS system pilot study is being conducted at the Building 1168 Leach Well, and results to date indicate that the system is effectively remediating the groundwater contamination. Alternatives 3, 4, and 5 propose expansion of this system for full-scale treatment. LTTD and engineered pile treatability studies would be required before implementing Alternatives 4 and 5, respectively.

#### 6.2.2.5 Cost

The estimated present worth cost for each alternative evaluated for the Building 1168 Leach Well source area is shown in Table 6-2. Detailed cost tables are in Appendix D.

#### 6.2.3 Modifying Criteria

#### 6.2.3.1 State Acceptance

ADEC has been involved with the development of remedial alternatives for OU-2 and agrees with the selected alternative for the Building 1168 Leach Well source area.

#### 6.2.3.2 Community Acceptance

Although no official comments were received, the community response to the preferred alternatives was generally positive. Community response to the remedial alternatives is presented in the Responsiveness Summary, which addresses comments received during the public comment period.

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|                                                                                                                                  | Ta                                          | Table 6-1                                                                                                            |                                          |                                |                                    |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|------------------------------------|
| PRESENT WORT<br>I<br>FG                                                                                                          | H COSTS F<br>RMO YARI<br>OPERA<br>JRT WAINV | PRESENT WORTH COSTS FOR REMEDIAL ALTERNATIVES<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | LTERNATIVES                              |                                | -                                  |
| Description                                                                                                                      | Capital<br>Cost                             | Annual Operation<br>and Maintenance<br>Cost                                                                          | Annual<br>Groundwater<br>Monitoring Cost | Total<br>Present<br>Worth Cost | Present<br>Worth of<br>Annual Cost |
| Alternative 1: No Action                                                                                                         | 20                                          | \$0                                                                                                                  | 20                                       | \$0                            | \$                                 |
| Alternative 2: Institutional Controls, Natural<br>Attenuation, and Groundwater Monitoring/Evaluation                             | \$34,000                                    | \$0                                                                                                                  | \$146,000                                | \$180,000                      | \$146,000                          |
| Alternative 3: Soil Vupor Extraction, Groundwater<br>Air Sparging, Natural Attenuation, and Groundwater<br>Monitoring/Evaluation | \$1,426,000                                 | \$680,000                                                                                                            | 889,000                                  | \$2,195,000                    | \$769,000                          |
| Alternative 4: Alternative 3 Plus Excavation and<br>Disposal of Surface Soils Containing Benzo(a)pyrene                          | \$1,498,000                                 | \$682,000                                                                                                            | \$89,000                                 | \$2,269,000                    | \$771,000                          |
| Alternative 5: Alternative 3 Plus Excavation and<br>On-Site Solidification of Soils Containing<br>Benzo(a)pyrene                 | \$2,062,000                                 | \$698,000                                                                                                            | \$132,000                                | \$2,892,000                    | \$830,000                          |

Kcy:

DRMO = Defense Reutilization and Marketing Office.

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|                                                                                                                                      | Ta                                           | Table 6-2                                                                                                                 |                                          |                                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------|
| PRESENT WORTH COSTS FOR REMEDIAL ALTERNATIVES<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA  | H COSTS F<br>1168 LEAC<br>OPERAI<br>RT WAINW | NT WORTH COSTS FOR REMEDIAL ALTERN/<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | LTERNATIVES<br>De Area<br>A              |                                |                                                                                             |
| Description                                                                                                                          | Capital<br>Cost                              | Annual Operation<br>and Maintenaace<br>Cost                                                                               | Annual<br>Groundwater<br>Monitoring Cost | Total<br>Present<br>Worth Cost | Present<br>Worth of<br>Annual Cost                                                          |
| Alternative 1: No Action                                                                                                             | <b>\$</b> 0                                  | 50                                                                                                                        | \$0                                      | \$0                            | \$0                                                                                         |
| Alternative 2: Institutional Controls and Natural<br>Attenuation with Groundwater Monitoring/Evaluation                              | \$49,000                                     | \$0                                                                                                                       | \$81,000                                 | \$130,000                      | \$81,000                                                                                    |
| Alternative 3: Soil Vapor Extraction, Groundwater<br>Air Sparging with Natural Attenuation, and<br>Groundwater Monitoring/Evaluation | \$174,000                                    | \$66,000                                                                                                                  | \$29,000                                 | \$269,000                      | \$95,000                                                                                    |
| Alternative 4: Alternative 3 Plus Excavation and<br>Low-Temperature Thermal Desorption of<br>Unsaturated Soil                        | \$452,000                                    | \$78,000                                                                                                                  | \$29,000                                 | \$559,000                      | \$107,000                                                                                   |
| Alternative 5: Alternative 3 Plus Engineered Pile<br>Treatment of Unsaturated Soil                                                   | \$350,000                                    | \$119,000                                                                                                                 | \$29,000                                 | \$498,000                      | \$148,000                                                                                   |

#### 7.0 SELECTED REMEDIES

# 7.1 DEFENSE REUTILIZATION AND MARKETING OFFICE YARD

Because it best meets the nine CERCLA criteria, Alternative 3 is the selected remedy for groundwater contamination for the DRMO Yard source area. This alternative involves inplace treatment of soils via vacuum extraction; in-place, on-site treatment of groundwater via air sparging; groundwater monitoring/evaluation; and institutional controls. Alternative 3 is expected to achieve overall protection of human health and the environment and to meet ARARs through active treatment of soil and groundwater (see Table 7-1). This alternative protects the on-site potable drinking water well as well as the downgradient drinking water aquifer by treating and controlling the source of contamination and is viewed as being an effective and permanent solution to contamination at the DRMO Yard.

After a thorough assessment of the applicable alternatives for the DRMO Yard source area, taking groundwater risks, cleanup times, and cost into consideration, it was determined that protection of human health and the environment is best attained through active in-place treatment of soils and groundwater. After evaluation of the potential risks and appropriate cleanup standards and comparison with the nine CERCLA criteria, it was determined that action is not required for benzo(a)pyrene in soils. This alternative is believed to provide the best balance of criteria among the alternatives evaluated.

#### 7.1.1 Major Components of the Selected Remedy

- In situ treatment of groundwater and soil via air sparging to attain state and federal drinking water standards. Air sparging wells will be placed in the areas of highest contamination;
- In situ treatment of soils via soil vapor extraction to prevent contaminated unsaturated soils from acting as an ongoing source of contamination to groundwater. Soil vapor extraction wells will be placed in areas of highest soil contamination;
- Air emissions from the soil vapor extraction/air sparging treatment system will be monitored and evaluated periodically to meet emission requirements;
- The treatment system will be evaluated and modified as necessary to optimize effectiveness;
- Duration of treatment system operation is estimated to be three years in the active treatment zone and nine years at the Channel B wells to meet soil cleanup goals and state and federal maximum contaminant levels. A combination of groundwater monitoring and off-gas measurements will be used to determine attainment of remedial action objectives;

- After active treatment achieves state and federal maximum contaminant levels, natural attenuation will be relied on to achieve Alaska Water Quality Standards;
- Maintaining institutional controls, including restricted access and well development restrictions, and a groundwater monitoring and evaluation program for the potable drinking water supply wells. These controls will remain in place as long as hazardous substances remain on site at levels that preclude unrestricted use; and
- Additional institutional controls to prohibit refilling the DRMO Yard fire suppression water tank from the existing DRMO Yard potable water supply well until state and federal maximum contaminant levels are met (except in emergency situations).

#### 7.1.2 Goals of Remedial Action

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The overall goal of a remedial action is to provide the most effective mechanism to meet state and federal regulations for drinking water. To facilitate selection of the most appropriate remedial action, source area-specific cleanup objectives that specify the contaminants of concern in each medium of interest, exposure pathways and receptors, and an acceptable regulatory level were developed. The following remediation goals were established for the specific contaminants of concern determined to require remedial action at both source areas. These goals are intended for the areas where active remediation will occur.

| CHEMICALS OF CONCERN IN GROUNDWATER | REMEDIATION GOAL (µg/L)* |
|-------------------------------------|--------------------------|
| Benzene                             | 5.0                      |
| Trichloroethene                     | 5.0                      |
| Tetrachloroethene                   | 5.0                      |
| Vinyl chloride                      | 2.0                      |
| 1,1-Dichloroethene                  | 7.0                      |
| 1,2-Dichloroethene                  | 70.0                     |

# 7.1.2.1 Defense Reutilization and Marketing Office Yard Groundwater and Soil

Groundwater remediation goals are based on federal and state MCLs for organic contaminants in public water supply systems (40 Code of Federal Regulations [CFR] 141.147 and 18 AAC 80).

At the DRMO Yard, after state and federal MCLs are achieved through active remediation, passive treatment of groundwater through natural attenuation will be relied on to attain AWQS (18 AAC 70).

Because soils contaminated with VOCs and petroleum-related compounds are acting as a continuing source of contamination to groundwater, the remedial action goal for in situ soils is active remediation until contaminant levels in groundwater are consistently below state and federal MCLs. The State of Alaska cleanup levels for UST petroleum-contaminated soil will be considered as a guideline for the treatment of in situ soils (see Table 7-2).

The cost for Alternative 3 is \$1,498,000 for present worth capital costs, which include direct and indirect cost; annual monitoring for 15 years (monitoring frequency may vary) at \$89,000; and present worth of annual operating cost \$680,000, for a total cost of \$2,195,000.

The remedial action goal for in situ soils contaminated with comingled VOC- and petroleum related-compounds is protection of the groundwater. Because the soils are acting as a continuing source of contamination to the groundwater, active remediation of the soils will continue until state and federal MCLs are met consistently. Natural attenuation will continue until AWQS are met. Some changes or modifications could be made to the remedy as a result of Remedial Design and construction processes. These changes will be addressed in post-ROD documents.

The goal of this remedial action is to restore groundwater to its beneficial use, which is a drinking water aquifer. Based on information obtained during the RI and on careful analysis of all remedial alternatives, the Army, EPA, and ADEC believe that the selected remedy would achieve this goal.

#### 7.2 BUILDING 1168 LEACH WELL

Alternative 3 is the preferred alternative for the Building 1168 Leach Well source area because it best meets the nine CERCLA criteria summarized in Table 7-3. This alternative involves in place treatment of soils and groundwater via soil vapor extraction/air sparging, groundwater monitoring, and institutional controls. Alternative 3 is expected to achieve overall protection of human health and the environment and to meet ARARs (see Table 7-4). In addition, this alternative is viewed as being an effective and permanent solution to contamination at the Building 1168 Leach Well.

After a thorough assessment of the applicable alternatives for the Building 1168 Leach Well source area, taking groundwater risks, cleanup times, and cost into consideration, it was determined that protection of human health and the environment is best attained through active in-place treatment of soils and groundwater. This alternative is believed to provide the best balance of criteria among the alternatives evaluated.

# 7.2.1 Major Components of the Selected Remedy

- In situ treatment of groundwater via air sparging to remove volatile organic compounds, thereby attaining state and federal drinking water standards. Additional air sparging wells will be placed to optimize the existing treatment system;
- In situ treatment of soils via soil vapor extraction to prevent contaminated soils from acting as an ongoing source of contamination to

groundwater. Additional soil vapor extraction wells will be placed to optimize the existing treatment system;

- The treatment system will be evaluated and modified as necessary to optimize effectiveness;
- Air emissions from the soil vapor extraction/air sparging treatment system will be monitored and evaluated periodically to meet emission requirements;
- The duration of treatment system operation is estimated to be three years to meet State of Alaska cleanup levels for non-underground storage tank petroleum-contaminated soil and state and federal MCLs. A combination of groundwater monitoring and off-gas measurements will be used to determine attainment of remedial action objectives;
- After active treatment achieves state and federal maximum contaminant levels, natural attenuation will be relied on to achieve Alaska Water Quality Standards; and
- Maintaining institutional controls, including restricted access and well development restrictions, as long as hazardous substances remain on site at levels that preclude unrestricted use.

#### 7.2.2 Goals of Remedial Action

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The overall goal of a remedial action is to provide the most effective mechanism to meet state and federal MCLs for drinking water. To facilitate selection of the most appropriate remedial action, source area-specific cleanup objectives that specify the contaminants of concern in each medium of interest, exposure pathways and receptors, and an acceptable regulatory level were developed. The following remediation goals were established for the specific contaminants of concern determined to require remedial action at both source areas. These goals are intended for the areas where active remediation will occur.

# 7.2.3 Building 1168 Leach Well Groundwater and Soil

| CHEMICALS OF CONCERN IN GROUNDWATER | REMEDIATION GOAL (µg/L)* |
|-------------------------------------|--------------------------|
| Benzene                             | 5.0                      |
| Trichloroethene                     | 5.0                      |
| Tetrachloroethene                   | 5.0                      |
| Vinyl chloride                      | 2.0                      |
| 1,1-Dichloroethene                  | 7.0                      |
| 1,2-Dichloroethene                  | 70.0                     |

a Groundwater remediation goals are based on state and federal MCLs for organic contaminants in public water supply systems (40 CFR 141.147 and 18 AAC 80).

At the Building 1168 Leach Well, after state and federal MCLs are achieved through active remediation, passive treatment of groundwater through natural attenuation will be relied on to attain cleanup levels mandated by the AWQS (18 AAC 70).

Because soils contaminated with VOCs and petroleum-related compounds are acting as a continuing source of contamination to groundwater, the remedial action goal for in situ soils is active remediation until contaminant levels in groundwater are consistently below state and federal MCLs. The State of Alaska cleanup levels for non-UST petroleum-contaminated soil will be considered as a guideline for the treatment of in situ soils.

The cost for Alternative 3 is \$174,000 for present worth capital costs, which include direct and indirect costs; annual monitoring for 15 years at \$29,000 (monitoring frequency may vary); and a present worth of annual operating cost of \$66,000, for a total cost of \$269,000.

The remedial action goal for in situ soils contaminated with VOC and POL compounds is protection of the groundwater. Because the soils are acting as a continuing source of contamination to the groundwater, active remediation of the soils will continue until state and federal MCLs are met consistently. Natural attenuation will continue until AWQS are met. Some changes or modifications could be made to the remedy as a result of Remedial Design and construction processes. These changes will be addressed in post-ROD documents.

The goal of this remedial action is to restore groundwater to its beneficial use, which is, at this site, a potential drinking water aquifer, and to remediate soil to State of Alaska cleanup levels for non-UST petroleum-contaminated soil. Based on information obtained during the RI and on careful analysis of all remedial alternatives, the Army, EPA, and ADEC believe that the selected remedy would achieve this goal.

Because the remedies will result in contaminants remaining on site above health-based or regulatory levels, a review will be conducted within five years after commencement of remedial action. This review will ensure that the remedies continue to provide adequate protection of human health and the environment.

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|                                                                                                                                            | Table 7-1                                                                |                                                                                                |                       |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|
| DRMO YARD REMEDIAL ACT<br>0<br>FORT V                                                                                                      | AL ACTION OBJECTIVES AND I<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | REMEDIAL ACTION OBJECTIVES AND REMEDIATION GOALS<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | ON GOALS              |                                      |
| Remedial Action Objectives                                                                                                                 | Chemicals of<br>Concern                                                  | Preliminary<br>Remediation Goal                                                                | Basis                 | Maximum<br>Measured<br>Concentration |
| Environmental Protection                                                                                                                   | DRO                                                                      | ADEC Cleanup Matrix <sup>a</sup>                                                               | ADEC 18 AAC 78        | 2,500 mg/kg                          |
| Prevent mieration of chemicals of concern that could result in                                                                             | Benzene                                                                  | 5 # <u>8/L</u>                                                                                 | MCL                   | 7.50 g/L                             |
| groundwater contantination exceeding chemical-specific ARARS.                                                                              | Tetrachloroethene                                                        | 5 μg/L                                                                                         | MCL                   | 190 µg/L                             |
|                                                                                                                                            | <b>Trichloroethene</b>                                                   | 5 µg/L                                                                                         | MCL                   | 17 μg/L                              |
| Human Reath                                                                                                                                | Vinyt chlorid <b>c</b>                                                   | 2 μg/L                                                                                         | Potential degradation | QN                                   |
| Reduce cancer risk (via ingestion and inhalation by future residents) to within or below the $1 \times 10^{-6}$ to $1 \times 10^{-6}$ risk | 1,1-DCE <sup>b</sup>                                                     | 7 μg/L                                                                                         | Potential degradation | QN                                   |
| range.                                                                                                                                     | 1,2-DCE <sup>b</sup>                                                     | 70 µg/L                                                                                        | Potential degradation | QN                                   |
|                                                                                                                                            |                                                                          |                                                                                                |                       |                                      |

ADEC soil matrix concentrations will be considered as a guidance for in situ treatment of soils.

Breakdown products of trichloroethene were not detected at concentrations that exceeded action levels; however, these will be included in groundwater monitoring. م ہ

Key:

| Alaska Administrative Code. | Alaska Department of Environmental Conservation. | Applicable or relevant and appropriate requirements. | Dichloroethene. | Defense Reutilization and Marketing Office. | Diesel-range organics. | Grams per liker. | Maximum contaminant level. | Milligrams per kilogram. | Micrograms per liter. | Not detected. |
|-----------------------------|--------------------------------------------------|------------------------------------------------------|-----------------|---------------------------------------------|------------------------|------------------|----------------------------|--------------------------|-----------------------|---------------|
| IJ                          | 0                                                | 11                                                   | 11              | 0                                           | Ħ                      | 11               | ti                         | tl                       | 1                     | Ħ             |
| AAC                         | ADEC                                             | ARARs                                                | DCE             | DRMO                                        | DRO                    | 3/L              | MCL                        | mg/kg                    | μg/L.                 | QN            |

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|                                                                                                   | Table 7-2                                                                                                       | .2                                                    |                          |                |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|----------------|
| СНЕМ                                                                                              | CHEMICAL-SPECIFIC CLEANUP GOALS FOR SOIL<br>DRMO YARD SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | NUF GOALS FOR S<br>JRCE AREA<br>UNIT 2<br>HT, ALASKA  | OIL                      | -              |
|                                                                                                   | CLEANUP GOALS FOR SOIL                                                                                          | S FOR SOIL                                            |                          |                |
| DRMO VARD SCORE                                                                                   |                                                                                                                 | ADEC Cleanup Level (mg/kg)                            | Level (mg/kg)            |                |
|                                                                                                   | Diesel                                                                                                          | )                                                     | Gasoline/Unknown         |                |
| Matrix Score = 44<br>BTEX × 15 mg/kg<br>Benzene = 0.5 mg/kg<br>VPH = 100 mg/kg<br>EPH = 200 mg/kg | Diesel-Range<br>Petroleum<br>11ydrocarbons<br>(EPH)                                                             | Gasoline-Rauge<br>Petroleum<br>Hydrocarbous<br>(VPII) | Benzene                  | BTEX           |
| Level A° > 40<br>Level B 27 - 40<br>Level C 21 - 26<br>Level D <20                                | 100<br>200<br>1,000<br>2,000                                                                                    | 50<br>500<br>1,000                                    | 1.0<br>2.0<br>2.0<br>2.0 | <b>6</b> 7 8 8 |

<sup>a</sup> Site-specific background groundwater concentration.

b Background concentrations from USAED Alaska-recommended background value for Fort Wainwright.

<sup>C</sup> Groundwater remedial goals are hased on federal and state MCLs for organic contaminants in public water supply systems (40 CFR 141.147 and 18 AAC 80).

d 18 AAC 70, Water Quality Standards. The regulatory level for BTEX is 10 µg/L.

<sup>e</sup> Level A cleanup goal is applied to the total matrix score of 44 because of the soil acting as an ongoing source of contamination to groundwater.

Key:

- Alaska Department of Environmental Conservation. 11
  - Benzene, toluene, ethylbenzene, xylene. li
    - Code of Federal Regulations. Defense Reutilization and Marketing Office. I
- AAC ADEC BTEX CFR CFR DRMO EPH
- 1[
- Diesel-range petroleum hydrocarbons. li
  - Maximum contaminant level. 11 MCL<sub>3</sub>
    - Micrograms per liter. ŧ,
      - 11
- Miligram per kilogram. United States Army Engineer District, Alaska. Gasoline-range petroleum hydrocarbons. 11 11
  - - Hg/L mg/kg USAED Alaska VPH

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| BUILDING        | Table 7-3<br>BUILDING 1168 LEACH WELL SOURCE AREA REMEDIAL ACTION OBJECTIVES AND REMEDIATION GOALS<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | Table 7-3<br>AREA REMEDIAL ACTION OB<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | ACTION OBJECTIVES A<br>VIT 2<br>I, ALASKA | IND REMEDIATIO                   | N GOALS                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------|
| Media           | Remedial Action Objectives                                                                                                                       | Chemicals of<br>Concern                                                            | Preliminary Remediation<br>Goal           | Basis                            | Maximum<br>Measured<br>Concentration |
| Subsurface soil | Eavironmental Protection                                                                                                                         | DRO                                                                                | ADEC soil cleanup matrix <sup>a</sup>     | ADEC 18 AAC 78                   | 435 mg/kg                            |
|                 |                                                                                                                                                  | GRO                                                                                | ADEC soil cleanup matrix <sup>a</sup>     | ADEC 18 AAC 78                   | 2,000 mg/kg                          |
|                 | Reduce chemical concentrations to<br>below ADEC cleanup fevels.                                                                                  | BTEX                                                                               | ADEC soil cleanup matrix <sup>a</sup>     | ADEC 18 AAC 78                   | Not available                        |
| Groundwater     | Environmental Protection                                                                                                                         | Benzene                                                                            | 5 μg/L                                    | MCL                              | 250 μg/L <sup>b</sup>                |
|                 | Restore groundwater to below chemical-<br>specific ARARs.                                                                                        | Trichlorocthene                                                                    | 5 μg/L                                    | MCL                              | 23.0 g/L                             |
|                 | Human Health<br>Reduce cancer risk (via ingestion and                                                                                            | Vinyl chloride                                                                     | 2 µB/L                                    | Potential<br>degradation product | QN                                   |
|                 | inhalation by future residents) to within<br>or below the EPA accepted risk range of $1 \times 10^{-4}$ to $1 \times 10^{-6}$ .                  | 1,1-DCE                                                                            | 7 µg/L                                    | Potential<br>degradation product | QN                                   |
|                 |                                                                                                                                                  | 1,2-DCE                                                                            | 70 µg/L                                   | Potential<br>degradation product | QN                                   |

Breakdown products of trichloroethene were not detected in concentrations that exceeded action levels; however, these will be included in groundwater monitoring. Nole:

ADEC soil concentrations will be considered as a guidance for treatment of in situ soils.

Maximum concentration of benzene was measured in a groundwater sample collected from Microwell installed by Pine and Swallow under direction from the United States Army's Cold Regions Research and Engineering Laboratory. The sample was collected and analyzed in September 1993 (HLA 1994). م ہ

Key at end of table.

Page 2 of 2

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Table 7-3 (Cont.)

Key:

AAC = Alaska Administrative Code. ADEC = Alaska Department of Environmental Conservation. ARARs = Applicable or relevant and appropriate requirements. BTEX = Benzene, toluene, ethylbenzene, and total xylenes. DCE = Dichloroethene. DRO = Diesel-range organics. EPA = United States Environmental Protection Agency. GRO = Gasoline-range organics. g/L = Grams per liter. HLA = Harding Lawson Associates. MCL = Maximum contaminant level.

μg/L = Micrograms per liter. mg/kg = Milligrams per kilogram. ND = Not detected.

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| Table 7.4 | CHEMICAL-SPECIFIC CLEANUP GOALS FOR SOIL<br>BUILDING 1168 LEACH WELL SOURCE AREA<br>OPERABLE UNIT 2<br>FORT WAINWRIGHT, ALASKA | CLEANUP GOALS FOR SOIL | DUILDING 1168 LEACH WELL SOURCE AREA SCORE ADDEC Clemop Level (mg/kg) | Diesel Gasotine/Unknown | Mairix Score = 46 Mairix Score = 46   = 15 mg/kg Diesel-Range   = 0.5 mg/kg Diesel-Range   = 100 mg/kg Hydrocarbous   = 200 mg/kg (PFII)   (VPII) Benzene | 800 800                 | 200 100      | - |  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|---|--|
|           |                                                                                                                                |                        | <b>INTERING 1168 LEACH</b>                                            |                         | Matrix<br>BTEX = 15 mg/kg<br>Benzene = 0.5 mg/kg<br>VPH = 100 mg/kg<br>EPH = 200 mg/kg                                                                    | Level A <sup>e</sup> >4 | Level B 27 - |   |  |

Site-specific background groundwater concentration.

a b

Background concentrations from USAED Alaska-recommended background value for Fort Wainwright.

Groundwater remedial goals are based on federal and state MCLs for organic contaminants in public water supply systems (40 CFR 141.147 and 18 AAC 80). e O

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d 18 AAC 70, Water Quality Standards. The regulatory level for BTEX is 10 µg/L.

Level A cleanup goal is applied to the total matrix score of 46 because of soil acting as an ongoing source of contamination to groundwater.

Key:

Alaska Administrative Code. Alaska Department of Environmental Conservation. Milligrams per kilogram. United Stated Army Engineer District, Alaska. Beazene, toluene, ethylbeazene, total xylene. Gatoline-range petroleum hydrocarbons. Diesel-range petroleum hydrocarbons. Code of Federal Regulations. Maximum contaminant level. Micrograms per liter. II H It **1**1 11 R ¥ I U 11 AAC ADEC BITEX EPH CFR MCLs MCLs MCLs Wg/L USAED Alaska VPH

#### 8.0 STATUTORY DETERMINATIONS

The main responsibility of the Army, EPA, and ADEC under their legal CERCLA authority is to select remedial actions that are protective of human health and the environment. In addition, Section 121 of CERCLA, as amended by SARA, provides several statutory requirements and preferences. The selected remedy must be cost-effective and utilize permanent treatment technologies or resource recovery technologies to the extent practicable. The statute also contains a preference for remedies that permanently or significantly reduce the volume, toxicity, or mobility of hazardous substances through treatment. CERCLA finally requires that the selected remedial action for each source area must comply with ARARs established under federal and state environmental laws, unless a waiver is granted.

# 8.1 **PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT**

The selected alternatives for the DRMO Yard and Building 1168 Leach Well source areas will provide long-term protection of human health and the environment and satisfy the requirements of Section 121 of CERCLA.

# 8.1.1 Defense Reutilization and Marketing Office Yard

The selected remedy will provide long-term protection of human health and the environment by removing the contamination from soils and groundwater through installation of an SVE/AS system. The remedy will eliminate the potential exposure routes and minimize the possibility of contamination migrating to drinking water sources. Groundwater monitoring/evaluation will be completed to assess contaminant plume movement and concentrations.

#### 8.1.2 Building 1168 Leach Well

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The selected remedy will provide long-term protection of human health and the environment by removing the contamination from soils and groundwater through installation of an SVE/AS system. The remedy will eliminate the potential exposure routes and minimize the possibility of contamination migrating to drinking water sources. Groundwater monitoring/evaluation will be completed to assess contaminant plume movement and concentrations.

# 8.2 COMPLIANCE WITH APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS AND TO-BE-CONSIDERED GUIDANCE

The selected remedy for each source area will comply with all applicable, relevant, and appropriate requirements of federal and state environmental and public health laws. These requirements include compliance with all the location-, chemical-, and action-specific ARARs listed below. No other waiver of any ARAR is being sought or invoked for any component of the selected remedies.

# 8.2.1 Applicable or Relevant and Appropriate Description

An ARAR may be either "applicable" or "relevant and appropriate." Applicable requirements are those substantive environmental protection standards, criteria, or limitations promulgated under federal or state law that specifically addresses a hazardous substance, remedial action, location, or other circumstance at a CERCLA site. Relevant and appropriate requirements are those substantive environmental protection requirements promulgated under federal and state law that, while not legally applicable to the circumstances at a CERCLA site, addresses situations sufficiently similar to those encountered at the CERCLA site so that the requirements' use is well-suited to the particular site. The three types of ARARs are described below:

- Chemical-specific ARARs are usually health- or risk-based numerical values or methodologies that establish an acceptable amount or concentration of a chemical in the ambient environment;
- Action-specific ARARs are usually technology- or activity-based requirements for remedial actions; and
- Location-specific ARARs are restrictions placed on the concentration of hazardous substances or the conduct of activity solely because the ARARs occur in special locations.

To-be-considered requirements (TBCs) are nonpromulgated federal or state standards or guidance documents that are to be used as appropriate in developing cleanup standards. Because they are not promulgated or enforceable, TBCs do not have the same status as ARARs and are not considered required cleanup standards. They generally fall into three categories:

- Health effects information with a high degree of credibility;
- Technical information regarding how to perform or evaluate site investigations or response actions; and
- State or federal agency policy documents.

# 8.2.2 Chemical-Specific Applicable or Relevant and Appropriate Requirements

- Federal Safe Drinking Water Act (40 CFR 141) and Alaska Drinking Water Regulations (18 AAC 80): The MCL and non-zero MCL goals were established under the Safe Drinking Water Act and are relevant and appropriate for groundwater that is a potential drinking water source;
- AWQS (18 AAC 70): Alaska Water Quality Standards for Protection of Class (1)(A) Water Supply, Class (1)(B) Water Recreation, and Class (1) Aquatic Life and Wildlife (18 AAC 70) are applicable to both source areas. Many of the constituents of groundwater regulated by AWQS are identical to MCLs in Drinking Water Standards;
- Alaska Oil Pollution Regulations (18 AAC 75): Alaska Oil Pollution Control Regulations, are applicable. Under these regulations, responsible parties are required to clean up oil or hazardous material

releases. The Army anticipates achieving a cleanup level consistent with this regulation; and

 Alaska Regulations for Leaking Underground Storage Tanks (18 AAC 78): The State of Alaska has established cleanup requirements for petroleum-contaminated soils from leaking USTs to protect groundwater and are relevant and appropriate for the DRMO Yard.

# 8.2.3 Location-Specific Applicable or Relevant and Appropriate Requirements

No location-specific ARARs have been identified for the DRMO Yard and Building 1168 Leach Well source areas.

# 8.2.4 Action-Specific Applicable or Relevant and Appropriate Requirements

- RCRA Subtitle C Hazardous Waste Management Standards must be considered in the evaluation of whether any of the excavated soils from the OU-2 source areas exhibit the characteristics of a RCRA hazardous waste; however, no soils have been identified to date. RCRA regulations will be applicable to the storage and disposal of any RCRA hazardous waste;
- Federal Clean Air Act (42 United States Code 7401), as amended, is applicable for venting contaminated vapors;
- Alaska Air Quality Control Regulations (18 AAC 50). Although onsite remedial actions do not require permitting, the substance portion of these regulations must be met for the venting of contaminated vapors associated with operation of the air sparging, SVE, or LTTD; and
- Alaska Solid Waste Management Regulations (18 AAC 60) must be met for proper management and transport of wastes that meet the definition of a RCRA hazardous waste but contain contaminants that exceed cleanup levels.

#### 8.2.5 Information To-Be-Considered

The following information TBC will be used as a guideline when implementing the selected remedy:

- State of Alaska Interim Guidance for Non-UST Contaminated Soil Cleanup Levels (July 17, 1991) for the Building 1168 Leach Well;
- State of Alaska Guidance for Storage, Remediation, and Disposal of Non-UST Petroleum-Contaminated Soils (July 29, 1991) for the Building 1168 Leach Well; and
- State of Alaska Interim Guidance for Surface and Groundwater Clean-

up Levels (September 26, 1990) for both source areas.

#### 8.3 COST EFFECTIVENESS

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The selected remedies provide an overall effectiveness proportionate to their costs, such that they represent a reasonable value for the money spent.

### 8.4 UTILIZATION OF PERMANENT SOLUTIONS AND ALTERNATIVE TREAT-MENT TECHNOLOGIES OR RESOURCE RECOVERY TECHNOLOGIES TO THE MAXIMUM EXTENT PRACTICABLE

The Army, State of Alaska, and EPA have determined that the selected remedies represent the maximum extent to which permanent solutions and treatment technologies can be used in a cost-effective manner at the OU-2 source areas. Of those alternatives that protect human health and the environment and comply with ARARs, the Army, State of Alaska, and EPA have determined that the selected remedies provide the best balance of trade-offs in terms of long-term effectiveness and permanence; reduction of toxicity, mobility, or volume through treatment; short-term effectiveness; implementability; cost; and the statutory preference for treatment as a principal element in considering state and community acceptance.

#### 8.5 PREFERENCE FOR TREATMENT AS A MAIN ELEMENT

The selected remedy for each source area satisfies the statutory preference for treatment for soil and groundwater.

# 9.0 DOCUMENTATION OF SIGNIFICANT CHANGES

The selected remedy for the DRMO Yard and Building 1168 Leach Well source areas is the same preferred alternative for each area presented in the Proposed Plan. No changes in the components of the preferred alternative have been made.

### APPENDIX A

# FORT WAINWRIGHT COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT FEDERAL FACILITY AGREEMENT RECOMMENDED ACTION DOCUMENTS

# CONTENTS

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| Source Area                                     | <u>Pa</u> | age |
|-------------------------------------------------|-----------|-----|
| 801 DRUM BURIAL SITE                            |           | ji  |
| ENGINEERS PARK DRUM SITE                        | ••        | 1   |
| DRUM SITE SOUTH OF THE LANDFILL                 |           |     |
| BUILDING 3477                                   |           |     |
| TAR SITES                                       |           | ••  |
| DEFENSE REUTILIZATION AND MARKETING OFFICE YARD |           |     |
| BUILDING 1168 LEACH WELL                        |           |     |
| NORTH POST SITE                                 | • •       | - • |

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#### FORT WAINWRIGHT

# CERCLA FEDERAL FACILITY AGREEMENT

# RECOMMENDED ACTION

# Source Area: 801 Drum Burial Site Engineer Park Drum Site Drum Site South of Landfill

Recommended Action: Referral from Operable Unit 2 to Operable Unit 1.

<u>Background</u>: A removal action was completed on these source areas in 1992. The information needed to adequately assess further actions was not received in time to meet the schedule of Operable Unit 2. It was agreed by the Project Managers to move these source areas to Operable Unit 1.

Comments:

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<u>Approvals</u>: The following project managers, representing their respective agencies which are signatories to the FFA, concur with this evaluation.

Rielle Markey O Date Alaska Department of Environmental Conservation Remedial Project Manager

Dianne Soderlund US Environmental Protection Agency Remedial Project Manager

Cristal Fosbrook 6th Division (Light), US Army Garrison Directorate of Public Works Remedial Project Manager

2/4/94

4 Feb 94

65034

Date

Date

#### FORT WAINWRIGHT

# CERCLA FEDERAL FACILITY AGREEMENT

### RECOMMENDED ACTION

Source Area: Tar Sites

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Recommended Action: No Further Action

**Background:** After evaluation of all available historical information and interviews with individuals having an institutional knowledge of Fort Wainwright (FWA), site visit and review of analytical data, no further action (NFA) is planned for this source based on one or more of the following reason:

1. 1992 analytical results.

A systematic, qualitative approach has been used to determine the disposition of this potential source of contamination which is consistent with RI/FS guidance and Superfund objectives. This approach is based on a conceptual model of this particular source, the ultimate risk to human health or the environment that it represents, and analytical results. If, at any juncture, additional information becomes available which alters the information used in this decision, the source will be reevaluated.

This decision document will become part of the Record of Decision (ROD) for Operable Unit (OU) 2, as designated by the Federal Facility Agreement (FFA), which was signed by US Environmental Protection Agency (EPA) the Alaska Department of Environmental Conservation (ADEC) and the US Army.

**Location:** West of the FWA South Post Soccer Field; at Glass park next to Building 4040; northwest of the FWA Golf Course; and west of the power plant cooling pond next to the railroad.

History: Reportedly the sites were used as tar disposal areas. Based on a concern of possible leachate release from these sites, they were included in the FFA as sources that needed further investigation. A sampling effort was conducted in June and July of 1992. The results we summarized in U.S. Army Corps of Engineers memorandum dated October 7th and 15th 1992.

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- Summary: The criteria used in the decision process for this site is as follows:
- During a 1992 sampling effort the source areas were located and tar samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) analysis; The analytical results indicate that there is no potential for groundwater contamination.

Based on the above information, there is no evidence that a potential source of contamination exists at these sites.

Reference: October 7th and 15th chemical analysis results of the samples collected in June and July of 1992.

### Comments:

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Future actions with these sites should be coordinated with the Solid waste / Pollution Prevention program of AL. Dept. of Environmental Conservation. Rielle Markey 7-25-94

# TAR SITES NO FURTHER ACTION

Approvals: The following project managers, representing their respective agencies which are signatories to the FFA, concur with this evaluation.

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Rielle Markey O Alaska Department of Environmental Conservation Remedial Project Manager

Dianne Soderlund US Environmental Protection Agency Remedial Project Manager

Cristal Fosbrook 6th Division Light/US Army Garrison Directorate of Public Works Remedial Project Manager

<u>5-94</u>

lar Date

Date

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Revised 3 June 94

#### FORT WAINWRIGHT

# CERCLA FEDERAL FACILITY AGREEMENT

#### RECOMMENDED ACTION

Source Area: Engineer Park Drum Site

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Recommended Action: No Further Action (NFA).

<u>Background</u>: After evaluation of all available historical information, interviews with individuals having an institutional knowledge of Fort Wainwright, site visits, and review of analytical data, no further action is planned for this source based on the following reasons:

- 1. In 1992, 680 drums were removed.
- 2. Results of 1992 and 1993 limited field investigations.

A systematic, qualitative approach has been used to determine the disposition of this potential source of contamination which is consistent with RI/FS guidance and Superfund objectives. This approach is based on a conceptual model of this particular source and the ultimate risk to human health or the environment that it represents. If at any juncture, additional information becomes available which alters the information used in this decision, the source will be reevaluated.

This decision document will become part of the Record of Decision (ROD) for Operable Unit (OU) 1, as designated by the Federal Facility Agreement (FFA), which was signed by the Alaska Department of Environmental Conservation (ADEC), the US Environmental Protection Agency (USEPA), and the US Army. This source was moved from OU2 to OU1 as part of a Recommended Action dated February 4, 1994.

Location: This source is located on the northeast side of Engineers Park on the south bank of the Chena River. See attached map of source area.

History: Disposal of drums at this location began after the August 1967 flood.

Summary: The criteria used in the decision process for this site is as follows:

- A drum removal was conducted in August and September of 1992. The crum removal activities at this site included removing unburied drums. A total of 680 drums were removed, 613 of the drums found were empty and 67 contained material. The drums contained gasoline, kerosene, degreasing solvents and PCE:
  - During a 1992 investigation ten surface soils samples were taken. Low levels of semivolatile organic compounds were detected. The maximum detected site concentration of the suspected contaminates were compared to EPA Regions 10's Risk-Based-Concentrations, which were used as conservative screening values. The comparison indicates no unacceptable potential risks to human health or the environment.
- During 1993 ground penetrating radar (GPR) was conducted with no additional drums being located. Additionally, eleven surface samples were taken and two soil borings were completed as monitoring wells. The maximum detected site concentration of the suspected contaminates were compared to EPA Regions 10's Risk-Based-Concentrations and the comparison indicates no unacceptable risks to human health or the environment.
- In both sampling events an observational approach was employed to assure samples represented potential worst case contamination.
- Detected concentrations of soil with Di-n-butylphthalate were determined to be laboratory contaminates.
  - All detected concentrations in groundwater data were determined to be laboratory contaminates.

Based on the above information there is no evidence that a contaminant release has occurred at this source area which poses an inacceptable risk to human health or the environment.

#### References:

Preliminary Source Evaluation 2. Blair Lakes and Drum Sites. Fort Wainwright, AK, Harding Lawson and Associaties, March 1994

<u>Final Report for Drummed Waste Removal. Fort Wainwright. Fairbanks. Alaska.</u> <u>Volume I. II. and III</u>, OHM Remediation Services Corporation, February 1993

# Comments:

# Engineer Park Drum Site-No Further Action

<u>Approvals</u>: The following project managers, representing their respective agencies which are signatories to the FFA, concur with this evaluation.

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7-25-90

6/16/94

RIELLE MARKEY O Date Alaska Department of Environmental Conservation Remedial Project Manager

DIANNE SODERLUND US Environmental Protection Agency Remedial Project Manager

Date

CRISTÁL FOSBROOK 6th Division (Light), US Army Garrison Directorate of Public Works, Alaska Remedial Project Manager

\_ \_\_ Date \_\_\_

25/92



# FORT WAINWRIGHT

## CERCLA FEDERAL FACILITY AGREEMENT

#### RECOMMENDED ACTION

Source Area: Building 3477 - Battery Storage Area

Recommended Action: No Further Action

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Background: Based on a review of all available historical information, interviews with individuals having an institutional knowledge of Fort Wainwright and, if possible, this site, and a limited field investigation. No further action (NFA) is planned for this source based on one or more of the following reasons:

- 1. Interviews with individuals confirming the source existed.
- 2. Results of a 1992 limited field investigation at the source indicates no real potential risks to human health or the environment exists at the battery storage area.

A systematic, qualitative approach has been used to determine the disposition of this potential source of contamination which is consistent with RI/FS guidance and Superfund objectives. This approach is based on a conceptual model of this particular source and the ultimate risk to human health or the environment that it represents. If, at any juncture, additional information becomes available which alters the information used in this decision, the source will be reevaluated.

This decision document will become part of the Record of Decision (ROD) for Operable Unit (OU) 2, as designated by the Federal Facility Agreement (FFA), the Alaska Department of Environmental Conservation (ADEC) and the US Army on February 12, 1993.

Location: The battery storage area is located on the east side of Building 3477. Building 3477 is on Chippewa Avenue, approximately 1/4 mile northeast of the South Gate House.

History: Building 3477 was constructed 1955 as a vehicle maintenance facility. The building is currently used for vehicle and equipment maintenance. The site had been used for servicing and storing batteries for an unknown period. These practices were discontinued in 1990, and the U.S. Army contracted for the battery servicing area to be cleaned. The area on the east side of the building was used for temporary storage of batteries that were to be disposed of. Basec on the potential for contaminant release from this site, it was included in the FF. as a source that needed further investigation through the Preliminary Source Evaluation (PSE) 2 process. A draft PSE report was published November 4, 1992.

Summary: The criteria used in the decision process for this site is as follows:

- During interviews with former US Army personnel, one soldier stated the site was no longer used as a storage area for batteries that were to be disposed of.

- During interviews with current and former employees (the site was identified : an area of building 3477).

- During a 1192 limited field investigation samples were collected. The maximum detected site concentrations of the suspected contaminates were compared with EPA Region 10's Risk-Based Concentrations and the compariso indicates no real or potential risks to human health or the environment exists at the battery storage area. Attachment 1 includes a plot plan of this source.

 Based on the above information, there is no evidence that a potential source of contamination exists at this site.

Reference: <u>Final Report. Operable Unit 2. Preliminary Source Evaluation 2.</u> <u>Phase 1. Fort Wainwright. Alaska.</u>; Harding Lawson and Associates, April 23, 1993.

Comments:

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Approvals: The following project managers, representing their respective agencies which are signatories to the FFA, concur with this evaluation.

**Rielle Markey** Alaska Department of Environmental Conservation Remedial Project Manager

Dianne Soderlund US Environmental Protection Agency Remedial Project Manager

Cristal Fosbrook 6th Division Light/US Army Garrison Directorate of Public Works Remedial Project Manager

1/13/24 Date

<u> 3 Jan 94</u> Date

### FORT WAINWRIGHT

# CERCLA FEDERAL FACILITY AGREEMENT

### RECOMMENDED ACTION

Source Area: Drum Site South of Landfill

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Recommended Action: No Further Action (NFA).

<u>Background</u>: After evaluation of all available historical information, interviews with individuals having an institutional knowledge of Fort Wainwright, site visits, and review of analytical data, no further action is planned for this source based on the following reasons:

- 1. In 1992, 573 drums were removed.
- 2. Results of 1992 and 1993 limited field investigations.

A systematic, qualitative approach has been used to determine the disposition of this potential source of contamination which is consistent with RI/FS guidance and Superfund objectives. This approach is based on a conceptual model of this particular source and the ultimate risk to human health or the environment that it represents. If at any juncture, additional information becomes available which alters the information used in this decision, the source will be reevaluated.

This decision document will become part of the Record of Decision (ROD) for Operable Unit (OU) 1, as designated by the Federal Facility Agreement (FFA), which was signed by the Alaska Department of Environmental Conservation (ADEC), the US Environmental Protection Agency (USEPA), and the US Army. This source was moved from OU2 to OU1 as part of a Recommended Action dated February 4, 1994.

Location: This source is located on the south of the landfill and includes drum areas, referred to as the least and west drum sites. See attached map of source area.

<u>History</u>: Historical information and records on drum disposal at this location were not available. The site was identified in the RCRA Facility Assessment as a potential source.

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Summary: The criteria used in the decision process for this site is as follows:

- A drum removal was conducted in August and September of 1992. The drum removal activities at this site included removing unpuried drums. A total of 573 drums were removed, 474 of the drums found were empty and 99 contained material. The drums contained gasoline, kerosene and degreasing solvents.
- During a 1992 investigation eleven surface soils samples were taken. Low levels semivolatile organic compounds were detected. The maximum detected site concentration of the suspected contaminates were compared to EPA Regions 10 Risk-Based-Concentrations. which were used as conservative screening values. These levels are within the 10-4 to 10-6 acceptable risk range as specified in 300.430(e)(2)(i)(A)(2) of the National Contingency Plan (NCP).
- During 1993 ground penetrating radar (GPR) was conducted with no additional drums being located. Additionally, eleven surface samples were taken and two s borings were completed as monitoring wells. Low levels of semivolatile organic compounds were detected in groundwater. The maximum detected site concentration of the suspected contaminates were compared to EPA Regions 10 Risk-Based-Concentrations, which were used as conservative screening values These levels are within the 10-4 to 10-6 acceptable risk range as specified in 300.430(e)(2)(i)(A)(2) of the National Contingency Plan (NCP). Attachment 2 includes pertinent analytical data.
- In both sampling events an observational approach was applied to assure samp: were taken in areas representing potential worst case contamination.
- Detected concentrations of Di-n-butylphthalate and Bis(2 etthylhexyl)pthaltate ir soil were-determined to be laboratory contaminates.

Based on the above information, there is no evidence that a contaminant release has occurred which poses an unacceptable risk to human health or the environment.

# References:

Preliminary Source Evaluation 2. Elair Lakes and Drum Sites, Fort Wainwright, AK, Harding Lawson and Associaties. March 1994

Final Report for Drummed Waste Removal, Fort Wainwright, Fairbanks, Alaska, Volume I. II. and III, OHM Remediation Services Corporation, February 1993

# <u>Comments</u>

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Table 4-5. Analytes Detected in Water Samples From the East and West Drum Sites

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| U.S. Army Corps of Engine            | ers Earing N        | umber   | AP-6277         | AP-5278            | AP-5278                           |
|--------------------------------------|---------------------|---------|-----------------|--------------------|-----------------------------------|
|                                      | lampie N            |         | FWEDG1WA        | FUNDOIWA           | FUNDCZYA                          |
| Laporat                              | ory Sample N        | ບກ່ວວງ  | 9 <b>49</b> 2-7 | 3492~5             | 9492-5                            |
|                                      | plicate Qual        |         | ¥/A             | 8/A                | çe                                |
| Associated Proj                      | ect Sample R        | unber   | H/A             | R/A                | FWD01VA                           |
|                                      | <del>_</del>        |         | <u></u>         |                    | <u></u>                           |
| naivte                               | Hetrod.             | Units   |                 |                    |                                   |
| Fuel Duantitation and Identification |                     |         |                 |                    |                                   |
| Diesel Fuel (as #2)                  | 5015H <sup>a</sup>  | mg/L    | 0.08            |                    | 0.05)                             |
| Bunker Oil (as #6 Diesel)            | 331244              | mg/L    | 0.34*           |                    | 0.48*                             |
| Sasoline Range Organics              | 8015H <sup>b</sup>  | No at   | aiytes detecte  | d above the met    | thed reporting                    |
| Diesel Range Organics                | 81.00H <sup>b</sup> | mg/L    | 0.19*           | 0.28-              | 0.25*                             |
| ORO                                  | 22001               |         |                 |                    |                                   |
| /ola <u>tile_Organic_Compounds</u>   | 5250                | R/A     | 2               | , 🛓                | 7 ±                               |
| Number of TICs                       |                     |         | 16              | , <b>≟</b><br>5∓ . | 2 <del>+</del><br>15 <del>-</del> |
| Sum of estimated TIC concentration   | , 8Z50              | ب/وµ    | 10              | 3 - 7              |                                   |
| Semivolatile Organic Compounds       | -                   |         | -               |                    |                                   |
| Di-n-putyiphthalate                  | 8270                | μg/L    | 15 B            | 32 B               | 7 B.E                             |
| bis(Z-Ethylhexyl)phthalate           | 5270                | L / وبر | 46              | ND(10)             | 10 E                              |
| Number of TICs                       | 8270                | N/A     | 2               | 3                  | 1                                 |
| Sum of estimated TIC concentration   | 5270                | µg/L    | 575             | 33                 | 8                                 |
| Draanochlorine Pesticides and PCEs   | 8250                | No ai   | nalytes detecte | d above the met    | chod reporti:                     |
| Organophosphorus Pesticices          | 5140                | No a    | naiytes detecte | d above the met    | chod report:                      |
|                                      | Ξ.                  |         |                 |                    |                                   |
| Hetals                               | 7050                | mg/L    | 0.0035          | 0.012              | 0.011                             |
| Arsenic                              | 5010                | mg/L    | 0.2             | 0.18               | 0.17                              |
| Barium                               | 5010                | mg/L    |                 |                    |                                   |
| Calcium                              | 5010                | mg/L    |                 | ÷=                 |                                   |
| Iron                                 | 7421                | - mg/L  | 0.0014          | ND(0.0010)         | 0.0025                            |
| Lead                                 | 6010                | mg/L    |                 |                    | **=                               |
| Kagnesium<br>Kasassa                 | 5010                | mg/L    |                 |                    | ·                                 |
| Manganese                            | 6010                | mg/L    | ÷-              |                    | •••                               |
| Potassium                            | 5010                | mg/L    |                 | -                  | •                                 |
| Sodi um                              | BOTO                | mg) L   |                 | -                  |                                   |

<sup>b</sup> Alaska Department of Environmental Conservation Hodified Hethods 8015H and 8100H.

- Not applicable.

- EPA Environmental Protection Agency. mg/L = Hilligrams per liter.
- H/A = Not applicable.
- Not detected above method reporting limit shown in parentheses. ND
- PCBs = Polychlorinated bipmenyls.
- TICs . Tentatively identified compounds.
- µg/L = Micrograms per liter.

Project Laboratory Qualifiers B = indicates the analyte was found in the blank as well as the sample. E = indicates estimated concentration.

- <u>Chemical Quality Assurance Report (COAR) Qualifiers</u> T Data should be considered with caution (see COAR. Appendix F).  $\pm =$  The CQAR deem the data unacceptable.

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#### Drum Site South of Landfill-No Further Action

Approvals: The following project managers, representing their respective agencies which are signatories to the FFA, concur was this evaluation.

G, L

RIELLE MARKEY *d* Date Alaska Department of Environmental Conservation Remedial Project Manager

Loa,

Date

6/16/94

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Date

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Cristal Fosbrook 6th Division (Light), US Army Garrison Directorate of Public Works, Alaska Remedial Project Manager

US Environmental Protection Agency

Dianne Soderlund

Remedial Project Manager

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#### APPENDIX B

#### ADMINISTRATIVE RECORD INDEX

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Fort Wainwright Administrative Record List of Documents Pertaining to OU 2

| Original Doc. |                                                                           | Document    | Author Name         | Author<br>Organization        | Recipient Name   | Recipient<br>Organization Start Page End Page | Start Page | End Page |
|---------------|---------------------------------------------------------------------------|-------------|---------------------|-------------------------------|------------------|-----------------------------------------------|------------|----------|
| Date          | ey of a Hazardous Waste                                                   |             | Arona               | CRRFI                         | Cristal Fosbrook | DPW                                           | 02078      | 02141_   |
| 6/1/86        | Dump-North Post Site                                                      | undau       |                     |                               |                  | ЦСС                                           | 02142      | 02210    |
| 10/1/86       |                                                                           | Report      | None given          | URS Corporation               |                  | 3                                             |            |          |
|               | Confirmation Study: Endangerment Assessment                               |             |                     |                               |                  |                                               |            |          |
|               | ea; incruaed                                                              | Renort      | None given          | URS Corporation               | None given       | COE                                           | 02211      | 02822    |
| - 4/1/8/      | nt for Proposed Family Housing                                            |             |                     | Ecology &<br>Environment      | CENPA-EN-PM-A    | COE                                           | 02823      | 03102    |
| 11/1/88       | Facilities, FTW<br>Trin Report, Cheng Project, IRP Projects on FTW        |             |                     |                               |                  | None diven                                    | 03109      | 03116    |
| 217/89        | and Ft. Greelv                                                            | Memorandum  | Georgeanne Reynolds | COE                           |                  |                                               |            | <br>     |
|               | ADEC Review Comments for Sampling Plan-IRP                                | atter       | Doualas Lowery      | ADEC                          | Eddie Brooks     | COE                                           | 05118      | 06120    |
| 7/21/89       | North Post Family Fousing                                                 |             |                     |                               | FIR              | File                                          | 03103      | 03104    |
| 8/12/89       | Chene River                                                               | Memorandum  | Dan Knicht          |                               | None given       | None given                                    | 03105      | 03108    |
| 9/1/89        | Trip Report, F1W, F1. Greely                                              |             |                     | Ecology &                     |                  |                                               |            |          |
|               | Letter Addressing Groundwater Containintation at<br>Mode Doot She on ETM  | Letter      | Jon Sendquist       | Environment                   | Eddle Brooks     |                                               | 05243      | 05244    |
| OR/R/Z        | Discussion of Army Hequest for Interpretation of                          |             |                     | Ecology &                     |                  | :                                             |            | 10110    |
|               | Groundwater Analytical Data and Titeli Errev of                           | Letter      | Jon Sundquist       | Environment                   | Eddle Brooks     |                                               | 02/64      | 8        |
| 06/6/2        | EPA Review Comments on Project Report for                                 |             | Dougloo Iohneon     | EDA                           | Coi. Edwin Ruff  | DEH                                           | 03249      | 03251    |
| 3/1/90        | North Post Site, FTW                                                      |             |                     |                               |                  | <br> <br> <br> <br>                           |            |          |
| 00/8/V        | ADEC Review Comments for Draft Project Report<br>for North Post Site, FTW | Letter      | Douglas Dasher      | ADEC                          | Paul Steucke     | Env. Res. Div.                                | 03252      | 03226    |
| 2:01<br>      | Memorandum for Record, Trip Report, Site                                  | ktomorandum | David Williems      | COE                           | File             | File                                          | 03117      | 03121    |
| 4/9/90        | Investigation of 5 F I W IHF SILES                                        |             |                     | Ecology &                     |                  |                                               | 00100      | 03941    |
| 5/1/90        | Project Report for the North Post Site, FTW                               | Report      | None given          | Environment<br>20E            | Mark Wallace     | Public                                        | 08303      | 08303    |
| 5/21/90       | Notice of Availability and Comment Period                                 | Notice      |                     |                               |                  |                                               | 060.40     | 06949    |
| 00/06/9       | AUEC Response to EX a river to the root of Site on Fort Wainwright        | Letter      | Rielle Markey       | ADEC                          | William Kakel    |                                               |            | 0.015-75 |
| 01201         | Remedial Action Required at North Post Site,                              | Fact Sheet  | Catherine Scott     | US Army                       | None given       | None given                                    | 08304      | 08304    |
| 1/2/90        | M L                                                                       |             | Kie Came            | Fairbanks Daily<br>News-Miner | Public           | Public                                        | 05246      | 05247    |
| 9/2/90        | Army Monitors Waste Site                                                  | Alucie      | UIIS Capito         | Ecology &                     |                  | Ĺ                                             | 00770      | 07456    |
| 5/1/91        | the North Post Site, FTW                                                  | Report      | None given          | Environment                   | Mark Wallace     |                                               | 04473      |          |
|               | Review of Planned Removal Action at North Post                            | Memorandum  | Paul Thies          | COE                           | Cristal Fosbrook | DPW                                           | 07425      | 07428    |
| 5/24/91       |                                                                           |             |                     |                               |                  |                                               |            |          |

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# Fort Wainwright Administrative Record List of Documents Pertaining to OU 2

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| Report         Norre given         COE         Contractors         05248         0           Report         Garson Carothers         Harding Lawson         Mark Weilace         COE         04134         0           Report         Garson Carothers         Harding Lawson         Mark Weilace         COE         04134         0           Report         Garson Carothers         Harding Lawson         CENPA EN-MIB-C         COE         04134         0           Report         Garson Carothers         Harding Lawson         CENPA EN-MIB-C         COE         04134         0           Report         Garson Carothers         Harding Lawson         CENPA EN-MIB-C         COE         04389         0           Report         Statun Sexton         Harding Lawson         CENPA EN-MIB-C         COE         03359         0           Report         Statun Sexton         Mark Wallace         COE         03489         0         0           Report         Sandre Disperi         Harding Lawson         CENPA-EN-MB-C         COE         03489         0           Report         Sandre Disperi         Harding Lawson         CENPA-EN-MB-C         COE         034139         0           Report         Sandre Disperi         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ō          | Original Doc.<br>Date | Title                                                                                                                                | Document<br>Type | Author Name      | Author<br>Organization | Recipient Name   | Recipient<br>Organization | Start Page End Page | End Pag |
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| J Waste Management Units,<br>samoe, FTW Site Stafty         Experim<br>Report         Garson Carothers         Harding Lawson         Mark Walloce         COE         03557         0           vestigation, STW VI, TW<br>PReport         Report         Garson Carothers         Harding Lawson         Cole         03557         0           vestigation, SWM UFW         Report         Garson Carothers         Harding Lawson         Cole         03591         0           Report         Lames Statery         Harding Lawson         Mark Wallace         COE         03489         0           Report         Report         Garson Carothers         Harding Lawson         COE         03489         0           Report         Report         Garson Carothers         Harding Lawson         Cole         03489         0           Report         Report         Report         Anew Wallace         COE         03489         0           Report         Report         Report         Renor         State Report         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1          | 8/1/91                | s for IRP North Post Site Soil                                                                                                       | Report           | Nane given       | COE                    | Contractors      | Contractors               | 05248               | 02680   |
| Residuation, SWMU FTW         Percent         Carson Carotheris         Harding Lawson         CERIPA-ENAREC         COE         04134         0           MP Reininary Source         Pepcrit         James Statieny,         Harding Lawson         CERIPA-ENAREC         COE         02381         0           MP Reininary Source         Pepcrit         James Statieny,         Harding Lawson         CERIPA-ENAREC         COE         03359         0           Report         Garson Canotheris         Harding Lawson         CERIPA-ENAREC         COE         03359         0           Report         Garson Canotheris         Harding Lawson         CERIPA-ENAREC         COE         03359         0           Report         Basen Soferitured         EPA         Critical Fostprook         DPW         05123         0           Co COZ, PSE2, Phase 2         Report         Demar Shot         ADEC         Contral PSE         05123         0         0         03170         0         04120         0         03123         0         0         0         0         03124         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td></td><td></td><td>ilid Waste Management Units,<br/>Ilssance, FTW Site Safety</td><td>Denort</td><td>Garson Carothars</td><td>:Harding Lawson</td><td>Mark Wallace</td><td>COE</td><td>03257</td><td>03280</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                       | ilid Waste Management Units,<br>Ilssance, FTW Site Safety                                                                            | Denort           | Garson Carothars | :Harding Lawson        | Mark Wallace     | COE                       | 03257               | 03280   |
| And Mark Mallace         COE         03391         0           An Normalization Frain PSC.         Benotr         James Statienty.         Harding Lawson         Mark Wallace         COE         03399         0           An Normalization Frain PSC.         Report         James Statienty.         Harding Lawson         Mark Wallace         COE         03389         0           Report         Status         Status         Status         Status         Status         COE         03489         CO           Revolution         Status         Status         Mark Wallace         COE         COE         03489         CO           Revolution         Etc.         Diantes Status         ADEC         Cristal Fostorok         DPW         06121         CO         03423         Status         034170         COE         03489         CO         04190         COE         03423         Status         04190         COE         034170         COE         034170         COE         034170         COE         034170         COE         034170         COE         034170         COE         04223         COE         034170         COE         04223         COE         04190         COE         04190         COE         COE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -          | 10/1/01               |                                                                                                                                      | tioder           | Garcon Carothere | Harding Lawson         | CENPA-EN-MB-C    | COE                       | 04134               | 04169   |
| <ul> <li>Acquisition Pan PSE, Hepon</li> <li>Repon</li> <li>Castan Saxton</li> <li>Periori</li> <li>Staun Saxton</li> <li>Harding Lawson</li> <li>CENPA EN MISC.</li> <li>Repon</li> <li>Contrant Scope of Work for</li> <li>Cutter</li> <li>Remon</li> <li>CENPA EN MISC.</li> <li>Letter</li> <li>Remon</li> <li>CENPA EN MISC.</li> <li>Contrant Scope of Work for</li> <li>Cutter</li> <li>Diant Scope of Work for</li> <li>Cutter</li> <li>Diant Scope of Work for</li> <li>Cutter</li> <li>Diant Scope of Work for</li> <li>Cutter</li> <li>Diante Scope of Work for</li> <li>Contranted</li> <li>Contranted</li> <li>Diante Scope of Work Plan for DRMO, OU2, PSE2, Phase 2</li> <li>Report</li> <li>Carri Granteneti</li> <li>Carri Granteneti</li> <li>Contranted</li> <li>Contranted</li> <li>Contranted</li> <li>Contranted</li> <li>Dianti Work Plan for DRMO, Letter</li> <li>Dianti Work Plan for DRMO, DRMO, Letter</li> <li>Dianti Work Plan for DRMO, D</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 16/07/1               | 8                                                                                                                                    | Henort           | James Slatterv   | Hardino Lawson         | Mark Wallace     | COE                       | 03281               | 03358   |
| RE, Phase 1, FTW     Report     Shaun Sexton     Harding Lawson     CENEA EN MB-C     COE     00121     C       COUZ, PSEC, Phase 2     Letter     Renont     Stand Short     ADE/C     Cristal Fosbrook     DPW     06121     C       Condition     Letter     Dame Sodentund     EPA     Chistal Fosbrook     DPW     06123     C       Swestigation, DRMO, OU2,     Report     Sandra Dieper     Harding Lawson     C     Cristal Fosbrook     DPW     06123     C       Anabyses     Momorandum     Trontry Segman     NPDML     Commander     Dist     04190     C       Anabyses     Momorandum     Trontry Segman     NPDML     Commander     Dist     04190     C       Anabyses     Momorandum     Trontry Segman     NPDML     Commander     Dist     04190     C       Anabyses     Momorandum     Trontry Segman     NPDML     Commander     Dist     04190     C       Anabyses     Momorandum     Trontry Segman     NPDML     Commander     Dist     04190     C       Anabyses     Memorandum     Trontry Segman     NPDML     Commander     Dist     04190       Anabyses     Memorandum     Trontry Segman     NPDML     Commander     Dist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | !          | ZEVEL                 |                                                                                                                                      | Report           | Garson Carothers | Harding Lawson         |                  | COE                       | 03359               | 03488   |
| or OUZ, PSEZ, Phase 2<br>or Diarti Scope of Work for<br>2<br>westigation, DRMO, OUZ,<br>Peter<br>westigation, DRMO, OUZ,<br>Peter<br>Peter<br>Memorandum<br>Peter<br>Memorandum<br>Peter<br>Peter<br>Memorandum<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>Peter<br>P | 1          | 5/28/92               | Work Plan, OU2, PSE2, Phase 1, FTW                                                                                                   | :                | Shaun Sexton     | Harding Lawson         | CENPA-EN-MB-C    | COE                       | 03489               | 03669   |
| Or Draft Scope of Work for<br>vestigation, DRMO, OU2,<br>Pesser         Letter         Diamone Soderlund         EPA         Cristal Fostbrook         DPW         56123         C           2         vestigation, DRMO, OU2,<br>Press         Report         Sandra Draper         Harding Lawson         CENIA EN-MB-C         COE         04170         0         04170         0         04170         0         04170         0         0         04170         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | :          | 6103100               | Review Comments for OU2, PSE2, Phase 2<br>DRMO                                                                                       | Letter           | Ronan Short      | ADEC                   | Cristal Fosbrook | DPW                       | 05121               | 05122   |
| westigation, DFMO, OU2,<br>resultation, DFMO, OU2,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Pressigation,<br>Letter         Bandra Draper         Handing Lawson         CENPA-EN-MB-C.         COE         04120         Control         012           Y of Invasive Investigation,<br>Pressigation,<br>Pressigation,<br>Dense 2         Memorandum         Timothy Seeman         NPDMI         Commander         Dist.         04120         04120         04120         04120           Y of Invasive Investigation,<br>Letter         Bhaun Sexton         Ment Weilson         Ment Weilson         Ment Weilson         04120         04224         1           Y of Invasive Investigation<br>Letter         Sandra Draper         Harding Lawson         Ment Weilson         US Army, AK         04233           Analyses         Menorandum         Timothy Seeman         NPDML         Commander         Dist.         04233           Analyses         Menorandum         Timothy Seeman         NPDML         Commander         Dist.         04233           Analyses         Menorandum         Delwyn Thomas         COE         COE         04233           Analyses         Memorandum         Delwyn Thomas         COE         COE         Distand           Analyses <t< td=""><td></td><td>6123/02</td><td>Review Comments for Draft Scope of Work for</td><td>Letter</td><td>Dianne Soderlund</td><td>EPA</td><td>Cristal Fosbrook</td><td>DPW</td><td>05123</td><td>05126</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | 6123/02               | Review Comments for Draft Scope of Work for                                                                                          | Letter           | Dianne Soderlund | EPA                    | Cristal Fosbrook | DPW                       | 05123               | 05126   |
| Analyses         Memorandur         Tmothy Seeman         NPDML         Commander         Dist.         04199         9           Y of Invasive Investigation,<br>Invasive Investigation,<br>Invoice Plan for DRMO         Letter         Bhain Sextion         Harding Lawson         Mark Wallace         Dist.         04199         9           2. Phase 1         Commander         Brain Sextion         Harding Lawson         Mark Wallace         COE         04224         0           2. Phase 2         Report         Cami Grandinetti         EPA         Cinstat Fosbrook         Dist.         04127         1         04233         1         04234         1         0         2         04234         1         0         04234         1         0         2         0424         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 7/28/92               | Non-Invasive Site Investigation, DRMO, OU2,<br>PSE2, Phase 2                                                                         | Report           | Sandra Draper    | Harding Lawson         | CENPA-EN-MB-C    |                           | 04170               | 04189   |
| Ordinative Invastigation,<br>Prinses 1     Letter     Shaun Sexton     Harching Lawson     Mark Wraitace     COE     04224       Prinses 1     Prinses 1     Letter     Shaun Sexton     Harching Lawson     Mark Wraitace     COE     04224     1       Prinses 1     Letter     Straun Sexton     Harching Lawson     Mark Wraitace     COE     05127     1       2     Prinse 2     Report     William Burgess     Harding Lawson     Mark Waitace     COE     03331       0U2, PSE2, Phase 2     Report     Sandra Draper     Harding Lawson     Mark Waitace     COE     03331       0L1, PSE2, Phase 2     Report     Sandra Draper     Harding Lawson     Mark Waitace     COE     03331       1 Analyses     I Analyses     Memorandum     Timothy Seeman     NPDML     Commander     US Army, AK     04239       1 Analyses     Memorandum     Delwyn Thornas     COE     COE     US Army     04239       Results: Tar Pit     Memorandum     Delwyn Thornas     COE     COE     04239       Results: Tar Pit 2     Memorandum     Delwyn Thornas     COE     COE     04239       I of Invasitive Investigation     Letter     Daniel Lawson     COE     COE     04233       I of Invasitive Inter     D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | . <u> </u> | 00/01/0               | Decide of Chemical Analyses                                                                                                          | Memorandum       | Timothy Seeman   | NPDML                  | Commander        | Dist                      | 04190               | 04223   |
| for Draft Work Plan for DRMO     Effer     Camil Grandmenti     EFA     Cristal Fosbrook     DPW     05127       2, Phase 2     Report     William Burgess     Harding Lawson     Mark Weillace     COE     03631       0.02, PSE2, Phase 2     Report     William Burgess     Harding Lawson     Mark Weillace     COE     03631       0.02, PSE2, Phase 2     Report     Sandra Draper     Harding Lawson     Mark Weillace     COE     03331       1 Analyses     Memorandum     Tirrothy Seeman     NPDML     Commander     Dist     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     COE     COE     04233       In of Invastive Investiggtion     Lefter     Sandra Draper     Harding Lawson     Mark Wallace     COE     04233       In of Invastive Investiggtion     Lefter     Sandra Draper     Harding Lawson     Mark Wallace     COE     03242       In of Drum Sites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | !          | 0/5/8                 | Preliminary Summary of Invasive Investigation,<br>Swith City DSF2 Phase 1                                                            |                  | Shaun Sexton     | Harding Lawson         | Mark Wallace     | COE                       | 04224               | 04232   |
| Anterses     Anterses     Report     William Burgess     Harding Lawson     Mark Wailace     COE     03670       OU2, PSE2, Phase 2     Report     William Burgess     Harding Lawson     Mark Wailace     COE     03831       I Ih Plan, OU2, PSE2, Phase 2     Report     Sandra Draper     Harding Lawson     Mark Wailace     COE     03831       I Analyses     Memorandum     Timothy Seeman     NPDML     Commander     US Army, AK     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Inv of Invasive Investigation     Letter     Sandra Draper     Harding Lawson     Mark Wailace     COE     04233       Inv of Invasive Investigation     Letter     Sandra Draper     Harding Lawson     Mark Wailace     COE     04234       Inv of Invasive Investigation     Letter     Daniel Lawson     COE     COE     COE     04234       Inv of Invasive Investigation     Letter     Daniel Lawson     COE     COE     COE     03242    <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                       | Review Comments for Draft Work Plan for DRMO                                                                                         |                  | Caml Grandinatti | EPA                    | Cristal Fosbrook | Mdū                       | 05127               | 05129   |
| Inh Plan, OU2, PSE2, Phase 2     Report     Sandra Draper     Harding Lawson     Mark Wallace     COE     COE     03331       I Analyses     Memorandum     Tirnothy Seeman     NPDML     Commander     US Army, AK     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04239       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Ivo of Invasive Investigation     Letter     Sandra Draper     Harding Lawson     Mark Wallace     04233       Ivo of Invasive Investigation     Letter     Sandra Draper     Harding Lawson     Mark Wallace     03242       Ivo of Invasive Investigation     Letter     Daniel Lawson     CREL     None given     COE     03242       Ivo of Drum Sites by Ground     Report     Daniel Lawson     CREL     None given     COE     03242       Ivo h Post Site     None given     COE     Ladiaw Env. Svcs.     None given     COE     04034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 9/17/92               | Work Plan, DRMO, OU2, PSE2, Phase 2                                                                                                  | Report           | Willam Burgess   | Harding Lewson         | Mark Waltace     | SOE                       | 03670               | 03830   |
| I Analyses     Memorandum     Timothy Seeman     NPDML     Commander     US Army, AK     04233       Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04239       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04239       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04233       Riv of Invesive Investigation     Letter     Sandra Draper     Harding Lawson     Mark Wallace     COE     03283       Riled Drum Sites by Ground     Report     Daniel Lawson     CRREL     None given     COE     03242       Anny Post Site     None given     COE     None given     COE     03242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>   |                       | Sile Safety and Health Plan. OU2, PSE2, Phase 2                                                                                      | Report           | Sandra Draper    | Harding Lawson         | Mark Wallace     | COE                       | 03831               | 03950   |
| Results: Tar Pit     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04239       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04277       Results: Tar Pit 2     Memorandum     Delwyn Thomas     COE     CENPA-EN-EE-AI     US Army     04277       Ried Drum Sites by Ground     Letter     Sandra Draper     Harding Lawson     Mark Wallace     COE     03242       atilization Bench Scale     Report     Daniel Lawson     CRREL     None given     COE     03242       atilization Bench Scale     Investige     None given     COE     OE     03242       atilization Bench Scale     Investige     None given     COE     08034       Isoults for TPH Contaminated     None given     COE     08034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>   | 10/5/92               | Results of Chemical Analyses                                                                                                         | Memorandum       | Timothy Seeman   | NPDML                  | Commander        | US Army, AK<br>Dist       | 04233               | 04238   |
| Results: Tar Pit 2       Memorandum       Delwyn Thomas       COE       CENPA-EN-EE-AI       US Army       04277         Invasive Investigation       Letter       Sandra Draper       Harding Lawson       Mark Walface       COE       04283         Invasive Investigation       Letter       Sandra Draper       Harding Lawson       Mark Walface       COE       04283         Investigation       Letter       Sandra Draper       Harding Lawson       CRREL       None given       COE       03242         Initization Bench Scale       Report       Daniel Lawson       CRREL       None given       COE       03242         Itilization Bench Scale       North Post Site       None given       COE       03034       00034         Initization Bench Scale       North Post Site       None given       COE       08034       03242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 10/7/92               | Chemical Analysis Results: Tar Pit                                                                                                   | Memorandum       | Delwyn Thomas    | COE                    | CENPA-EN-EE-AI   | US Army                   | 04239               | 04276   |
| Hesults: Tail File COE Memoranding Lawson Mark Walface COE 04283<br>Inded Drum Sites by Ground Report Daniel Lawson CRREL None given COE 03242<br>atilization Bench Scale<br>tesults for TPH Contaminated Report None given COE 08034<br>a North Post Site Report None given COE 08034<br>a North Post Site Report None given COE 08034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>   |                       |                                                                                                                                      | Mamorandum       | Delwon Thomas    | COF                    | CENPA-EN-EE-AI   | US Army                   | 04277               | 04282   |
| atilization Bench Scale<br>atilization Bench Scale<br>tesults for TPH Contaminated<br>North Post Site<br>None given<br>COE<br>03242<br>03242<br>03242<br>03034<br>COE<br>03034<br>00034<br>COE<br>03034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>00034<br>0003<br>00034<br>000<br>00034<br>000<br>00034<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000                                                                                                                                                                                                                                                               |            | 10/15/92              | Preliminary Summary of Invasive Investigation                                                                                        | Letter           | Sandra Draper    | Harding Lawson         | Mark Wallace     | COE                       | 04283               | 04286   |
| atilization Bench Scale<br>tesults for TPH Contaminated<br>9 North Post Site Report None given COE00034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>   | 11/1/92               | Investigations of Burled Drum Sites by Ground<br>Penetrating Radar                                                                   | Report           | Daniel Lawson    | CRREL                  | None given       | COE                       | 03242               | 03248   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 12/1/92               | Biodegredation/Volatilization Bench Scale<br>Treatability Study Results for TPH Contaminated<br>Soils Located at the North Post Site |                  | None given       | Laldlaw Env. Svcs.     |                  | COE                       | 08034               | 08302   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -          |                       |                                                                                                                                      |                  |                  |                        |                  |                           |                     | 6/4/96  |

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| Date          | Title                                                                                              | Type      | Author Name          | Organization                 | Hecipient Name               | Organization | 31911 L 476           |          |
| 104/03        |                                                                                                    | Letter    | Dianne Soderfund     | EPA                          | Cristal Fosbrook             | DPW          | 05130                 | 05136    |
|               | ng and Analytical Final Report for                                                                 | Ranort    | Thomas Warren        | OHM Remed. Svcs.             | None given                   | COE          | 05766                 | 06775    |
| 2/1/93        | Drummed waste Hernoval                                                                             | 10701     |                      |                              |                              |              | 01100                 | 007400   |
| 2/1/93        | -                                                                                                  | Report    | Thomas Warren        | OHM Remed. Svcs.             | None given                   | COE          | <u>16//6</u>          |          |
|               | port for Drummed Waste                                                                             | Renort    | Thomas Warren        | OHM Remed. Svcs.             | None given                   | COE          | 07109                 | 07407    |
| 21130         | Inal Report for OU2,                                                                               | atter     | Bonan Short          | ADEC                         | Cristal Fosbrook             | DPW          | 05137                 | 05138    |
| 3/26/93       | PSEZ, PII858 Z, DHWO<br>Tomporent Shoknile Plan North Post Site, FTW                               | Report    | None given           | v Env. Svcs.                 | None given                   | COE          | 05681                 | 05691    |
| CEINZIN       | Final Report OU2, Preliminary Source Evaluation                                                    | Report    | Shaun Sexton         | Harding Lawson               | CENPA-EN-EE-A                | COE          | 04287                 | 04580    |
| 2011211       | ADEC Review Comments for Treatability Study,<br>Morth Post Shes 3 & 4                              | Letter    | Riete Markey         | ADEC                         | Cristal Fosbrook             | MdQ          | 07457                 | 07459    |
| 50/00/2       | Notice of Violations During Remediation of<br>Contaminated Solis at Sites 3 & 4 at North Post      | Letter    | Rieke Markey         | ADEC                         | Robert Wrentmore             | USArmy       | 07460                 | 07460    |
|               | Final Report, Operable Unit 2, PSE 2, Phase 2,<br>Defense Reutilization Marketing Office, Fort     | tooan     | Paul Adet            | Harding Lawson               | CENPA-EN-EE-AI               | COE          | 23684                 | 24200    |
| 68/0L/9       | Valliwright, Alaska, Z vouires<br>Summary of Soil Sample Results for North Post                    | Renort    | CPT Malsom           | US Army                      | Joe Malen                    | DEH          | 07408                 | 07424    |
| 6/21/93       | Bioplie Work Plan North Post Site Soil<br>Remediation, FTW                                         | Report    | None given           | Laidlaw Env. Svcs.           | None given                   | COE          | 05692                 | 05763    |
|               | Enel Banot Ollo PSE2 Phase 2. DRMO. FTW                                                            |           | Paul Adel            | Harding Lawson               | None given                   | COE          | 04721                 | 05103    |
| 7/30/93       | Work Plan, OU2, PSE2, Support Work                                                                 | Report    | Timothy Gould        | Harding Lawson               | None given<br>ICENPA-EN-G-MI |              | 05104                 | 05117    |
| 7/30/93       | Hesure of Chemical Analyses, FLW Drived                                                            |           |                      |                              | CENPALEN-FF.AI               | COE          | 05139                 | 05177    |
| 8/9/93        | Badger Road                                                                                        | Heport    | None given           | Harding Lawson               | None given                   | None given   | 07461                 | 08033    |
| 10,000        | Final Management Plan, Operable Unit 2, Fort                                                       | Report    | Michael J. Schmetzer | Harding Lawson               | None given                   | COE          | 34940                 | 35955    |
| 10/90/P       | Preliminary Source Evaluation 2; Support Work:<br>Pro- Pro- Brief Steve Ford Wainwitchth Alaska    |           | Steven C. Gruhn      | Harding Lawson<br>Assoclates | Mark Wallace                 | COE          | 21666                 | 21850    |
|               | Operable Unit 2: Pretiminary Source Evaluation 2;<br>Support Work; Building 1168; Fort Wainwright, | Report    | Steven C. Gruhn      | Harding Lawson<br>Assoclates | Mark Wallace                 | COE          | 22098                 | 22319    |
| 4/23/94       | Alaska                                                                                             | 1 346 444 |                      |                              |                              |              |                       |          |

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| Fort Wainwright Administrative Record<br>List of Documents Pertaining to OU 2 |
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|                       |                                                                                                           | Report           | Michael J. Schmetzer                   | Harding Lawson                                             | CENPA-EN-EE-AI             | COE                                           | 26837      | 26844    |
|                       | uilding 1168,                                                                                             | Memorandum       | Delwyn Thomas                          |                                                            | CENPA-EN-EE-AI             | COE                                           | 26735      | 26754    |
|                       |                                                                                                           |                  | John H. Janssen                        | Oil Spill Technology,<br>Inc.                              | None given                 | COE                                           | 37864      | 38125    |
| -                     | Î                                                                                                         | Report           | Timothy Gould                          | Harding Lawson                                             | None given                 | COE                                           | 24842      | 24900    |
| 1/10/95               | _                                                                                                         | Report           | Michael J. Schmetzer                   | Harding Lawson                                             | CENPA-EN-EE-AI             | COE                                           | 24735      | 24764    |
| 1/31/95               | ly Study,                                                                                                 | Report           | Joseph W. McElroy                      | Hardeng Lawson                                             | None given                 | coe                                           | 27252      | 29025    |
| 5/15/95               | Building 1168 Treatability Study Offgas<br>Assessment                                                     | Report           | Tim Gould                              | Harding Lawson<br>Associates                               | Mark Wallace               | COE                                           | 48750      | 48766    |
| 7/1/95                | Final Site Safety and Heatin Plan, Fort<br>Walnwright Butcines 1002, 1168, and 2250                       | Report           | None given                             | ENSR Consulting<br>and Engineering                         | None given                 | COE                                           |            |          |
|                       | Final Work Plan for Release Investigations<br>Building 1002, 1168, and 2250, Fort Wainwight,              |                  | Alona chian                            | ENSR Consulting<br>and Engineering                         | None aiven                 | COE                                           |            |          |
| 4 <u>6/11/</u>        | Technical Memorandum, Underground Storage<br>Trank Release Investigations at the North Post               |                  | L Bohart Allan                         | Harding Lawson<br>Associates                               | None aiven                 | COE                                           | 37809      | 37818    |
| 10/13/95              | Einki Human Health Risk Assessment, OU2,<br>Delivery Order 002                                            | Report           | Douglas N. Cox                         | Harding Lawson<br>Associates                               | Mark Wallace               | COE                                           | 39929      | 40222    |
| 10/1/05               | Review Comments on Final Human Health Risk<br>Assessment, Operable Unit 2, Fort Walnwright,               | 1 etter          | Jack M. Heller                         | US Army Center for<br>Health Promotion                     | Mark Wallace               | COE                                           | <br>       |          |
| 19/00/05              | Release Investigation Report, North Post Site 4,<br>Fort Wainwricht Alaska                                | Heport           | Karol Lorraine,<br>J. Robert Allen     | Harding Lawson<br>Associates                               | Mark Wallace               | COE                                           |            |          |
| 96/21/1               | Technical Memorandum, Monitoring Results,<br>Building 1168 Treatability Study, Fort Wainwright,<br>Alaska | Memorandum       | Joseph W. McElroy,<br>Timothy F. Gould | Harding Lawson<br>Associates                               | Mark Wallace               | COE                                           |            |          |
| 1/16/96               | Request for Extension of Document Deadline for<br>the Operable Unit 2 Record of Decision                  | Letter           | Albert J. Kraus                        | US Army<br>Directorate of Public D. Soderlund; R.<br>Works | D. Sodertund; R.<br>Markey | US EPA<br>Reg <u>X</u> ; ADEC                 |            |          |
| 1/25/96               | Operable Unit 2 Final Remedial Investigation<br>Report, Fort Wainwright, Alaska, Volumes I, II, III       | Report           | Michael Schmetzer,<br>George Drewett   | Harding Lawson<br>Assoclates                               | Mark Wallace               | COE                                           |            |          |

| na Biver Anicle None given None given Public | EONSI and EA for the North Post Site Report None given COE CIE | Report None given | Fort Wainwright Proposed Plan for Remedial |   | Document Author Author Action Recipient Name  | List of Documents Pertaining to OO 2 | Fort Wainwright Administrative Record |
|----------------------------------------------|----------------------------------------------------------------|-------------------|--------------------------------------------|---|-----------------------------------------------|--------------------------------------|---------------------------------------|
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#### APPENDIX C

#### **RESPONSIVENESS SUMMARY**

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#### RESPONSIVENESS SUMMARY FOR THE RECORD OF DECISION FOR REMEDIAL ACTION AT OPERABLE UNIT 2, FORT WAINWRIGHT, ALASKA

#### OVERVIEW

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The United States Army, Alaska (Army); United States Environmental Protection Agency; and Alaska Department of Environmental Conservation, collectively referred to as *the Agencies*, distributed a Proposed Plan for remedial action at Operable Unit 2 (OU-2), Fort Wainwright, Alaska. OU-2 comprises eight source areas: the Defense Reutilization and Marketing Office (DRMO) Yard, the Building 1168 Leach Well, the North Post Site, the 801 Drum Burial Site, the Engineers Park Drum Site, the Drum Site South of the Landfill, Building 3477, and the Tar Sites.

The Proposed Plan identified preferred remedial alternatives for two of the eight source areas within OU-2: the DRMO Yard and Building 1168 Leach Well. The other six source areas were not considered for remedial action in the Proposed Plan. The soil contamination at the North Post Site consists of petroleum and petroleum-related products and will be addressed through an Army removal action that includes excavation, treatment, and proper disposal of the remediated soil. The 801 Drum Burial Site, Engineers Park Drum Site, and Drum Site South of the Landfill were assigned to Fort Wainwright OU-1 for a more comprehensive investigation and will addressed through that OU's decision process. Finally, no further action is recommended for Building 3477 and the Tar Sites.

The major components of the remedial alternatives for the DRMO Yard are:

- Soil vapor extraction,
- Groundwater air sparging with natural attenuation, and
- Groundwater monitoring/evaluation.

The major components of the remedial alternatives for the Building 1168 Leach Well are:

- Soil vapor extraction,
- Groundwater air sparging with natural attenuation, and
- Groundwater monitoring/evaluation.

No formal comments regarding the Proposed Plan for the OU-2 remedial action were submitted during the public comment period.

#### BACKGROUND OF COMMUNITY INVOLVEMENT

The public was encouraged to participate in the selection of the final remedies for OU-2 during a public comment period from May 1 to May 31, 1996. The Fort Wainwright Proposed Plan for Remedial Action at Operable Unit 2 presents combinations of options considered by the Agencies to address contamination in soil and groundwater at OU-2. The Proposed Plan was released to the public on May 1, 1996, and copies were sent to all known interested parties, including elected officials and concerned citizens. Informational Fact Sheets dated March and September 1995 and March 1996, which provided information

about the Army's entire cleanup program at Fort Wainwright, were mailed to the addresses on the same mailing list.

The Proposed Plan summarized available information regarding the OU. Additional materials were placed into two information repositories: one at the Noel Wien Library in Fairbanks and the other at the Fort Wainwright Post Library. An Administrative Record, including all items placed in the information repositories and other documents used in the selection of the remedial actions, was established in Building 3023 on Fort Wainwright. The public was welcome to inspect materials available in the Administrative Record and the information repositories during business hours.

Interested citizens were invited to comment on the Proposed Plan and the remedy selection process by mailing comments to the Fort Wainwright project manager, by calling a toll-free telephone number to record a comment, or by attending and commenting at a public meeting on May 8, 1996, at the Carlson Center in Fairbanks.

Basewide community relations activities conducted for Fort Wainwright, which includes OU-2, have included:

- July 1992—Community interviews with local officials and interested parties;
- April 1993—Preparation of the Community Relations Plan;
- July 1993—Distribution of an informational Fact Sheet covering all OUs at Fort Wainwright;
- July 22, 1993—An informational public meeting covering all OUs;
- April 22, 1994—Establishment of information repositories at the Noel Wien Library and the Fort Wainwright Post Library and at the Administrative Record at Building 3023 on Fort Wainwright;
- March 1995-Distribution of an informational Fact Sheet covering all OUs at Fort Wainwright;
- September 1995—Distribution of an informational Fact Sheet covering all OUs at Fort Wainwright; and
- March 1996—Distribution of an informational Fact Sheet covering all OUs at Fort Wainwright.

Community relations activities conducted specifically for OU-2 included:

- April 28 and May 1, 5, 6, 7, and 8, 1996—Display advertisement announcing the public meeting in the Fairbanks Daily News-Miner;
- May 1, 1996—Distribution of the Proposed Plan for final remedial action at OU-2;

- May 1 to May 31, 1996—Thirty-day public comment period. No extension was requested;
- May 1 to May 31, 1996—Toll-free telephone number for citizens to provide comments during the public comment period. The toll-free telephone number was advertised in the Proposed Plan and the newspaper display advertisement that announced the public meeting; and
- May 8, 1996—Public meeting at the Carlson Center to provide information, a forum for questions and answers, and an opportunity for public comment regarding OU-2.

#### SUMMARY OF COMMENTS RECEIVED DURING THE PUBLIC COMMENT PERIOD

No comments were received during the public comment period.

#### APPENDIX D

FORT WAINWRIGHT OPERABLE UNIT 2 SOURCE AREA BASELINE COST ESTIMATES FOR REMEDIAL ALTERNATIVES

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#### **BUILDING 1168 SOURCE AREA**

#### **BASELINE COST SUMMARY**

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#### Fort Wainwright OU-2 Feasibility Study Building 1168 Baseline Cost Estimate Summary

| Component                       |               | Ret           | medial Action Alterna | tive          |               |
|---------------------------------|---------------|---------------|-----------------------|---------------|---------------|
|                                 | Alternative 1 | Alternative Z | Alternative 3         | Alternative 4 | Alternative 5 |
| Present Worth of GW Monitoring  | \$0           | \$81,000      | \$29,000              | \$29,000      | \$29,000      |
| Present Worth of Capital Costs" | 50            | \$49,000      | \$174,000             | \$452,000     | \$350,000     |
| Present Worth of AOC            | \$0           | \$0           | \$66,000              | \$78,000      | \$119,000     |
| Total Cost to Implement         | \$0           | \$130,000     | \$269,000             | \$559,000     | \$498,000     |

\* Includes Direct and Indirect Capital Costs.

GW: groundwater

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ABC: annual operating cost

### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 1 No Action

Deact Capital Cart - Detail

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|                                             | Lipseidan (Britishin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 **                   | 1          | 3 976                                 |                | 101            |
|                                             | Comparison and trademits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |            | 5,000 00                              |                | 45 5           |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |            | 0 353 00                              | - I            | 12.            |
|                                             | Conference cal same postation entration (note, 1 summar200 C7 econorist)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |            | 5 2 355 50                            | iu [           |                |
| Martines, das Hillsteine                    | A Sector and investment (25 Feet, 4" manager, 410 Junes ray instance werker)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | +          | J 22 80                               | 10-1           | 100            |
| Lanne Same                                  | Shutang matanieunen wat humory as worter to sample of 13 feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | -          | 3 :6 62                               | 11             | - IÇ I         |
| hanne ers sen festale                       | 5 fest (that init with tage without any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N                      | +          | ə <u>2</u> 55                         | CT 1           | 16             |
| Provide the design Excercision              | Pression by moder of contents (Sundary \$ 168 new works in second)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |            | 0 160 00                              |                | 15             |
| Jeconomications of subsection in the        | time we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 1          | p 60 00                               | -              | ±01            |
|                                             | Parageante metalled gröbe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |            |                                       | CT T           | 12             |
| Deserve not unit beit st                    | Eggentante ter place mentalet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |            | Q 5 25                                |                | 10             |
| fyr Wymaisyn i saifd                        | Nagding az zavergen de funt Marten ajte Candfill fragmendet vederent<br>Diegen al fogenetett Vederet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |            | 0 0,00                                |                | 10.            |
|                                             | Confirmationy poil sample protection conception (rank, 2 samplin/200 CY encoded)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |            | 0 200 90                              |                | 10             |
|                                             | Calify and place that fit (any state that the second                                                                                                                                                                                                                                              |                        |            | 0 2.75                                | 1 <u> </u>     | 10.            |
| Decementary of Society Action               | and sensitivity, 2) a spectra reserve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA                     | 1          | 0 160 00                              |                | 52<br>10       |
| Children and a sist is create scale         | Permanente actual prote concert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 1          | a ad bo<br>a 200                      |                | 90<br>93.      |
|                                             | t and any set of the s | 1                      | ł          | 0 204                                 |                | 19.<br>10      |
|                                             | Lauren and and the second statement with the second statement and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                      | f          | 0 523                                 |                | 01             |
|                                             | Kaling System ini in playment was                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                      | 1          | 0 1,700 00                            |                | 10             |
|                                             | Fish Image descent statement and entered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |            | a (2000)                              | LS             | 10             |
|                                             | Se gramme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                      | 1          | 6                                     | E 1            | 10             |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |            |                                       |                |                |
|                                             | Cardenaters and analyzed travel and it and 200 C7 protest and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | +          |                                       | $ \rightarrow$ | - 10           |

(FFD: low temperature territor for NA: we applicate for the startes CT, salat vari DC, denst carrie oor FTC: patyonyi cita Sf: synay kan Sf: synay siri en, sonik Pitt Surt Ma ler bent Lift Gener finns Lift hode ander We all use evenue

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 1 No Action

#### Indirect Capital Cost Detail

|                           | ltem                            | Year of IC Expenditure | Guacter   | = == =       | Units   | Cost       |     |
|---------------------------|---------------------------------|------------------------|-----------|--------------|---------|------------|-----|
| ngineering: Design to lim | plenestation                    | NA                     |           |              | -       |            |     |
| •                         | Administration and supervision  |                        | 5         | \$5.D0       | hr I    | \$U        |     |
|                           | Design and development.         |                        | 2         | 75.00        | ja :    | \$0        |     |
|                           | Bratting                        |                        | 3         | ₩ <b>.00</b> |         | \$0        |     |
|                           | Monitoring and testing (Year D) |                        | 1 3       | S.00         | hr      | \$0        |     |
|                           | Project engineering             |                        | <u> </u>  | න.00         | hr<br>· | \$0        |     |
| Subtotal                  |                                 |                        | <br> <br> |              |         |            | \$0 |
| ingin eesing : Decommiss  | ioning                          | NÁ                     |           |              | [       |            |     |
|                           | Administration and supervision  |                        | 0         | 85.00        |         | 10         |     |
|                           | Design and development          |                        |           | 75.00        |         | \$0        |     |
|                           | Dratting                        |                        | {         | 55.00        |         | \$0        |     |
|                           | Monitoring and testing          |                        |           | 55.00        | i i     | \$0<br>\$0 |     |
|                           | Ргојест елдинекиод              |                        | <u> </u>  | 55.00        | 1W      | <u> </u>   | 50  |
| Subrotal                  |                                 |                        |           |              | _       |            | •0  |
| License/Permit/Legal      | (10% angineering costs)         | NA                     |           | C.00         | ea      | \$0        | \${ |
| Start-up and Shake Dov    | vis of Treatment System         | NA                     | † <b></b> |              |         |            |     |
|                           | Materials                       |                        | ( )       | 1,000.00     | \$      | \$0        |     |
|                           | Labor                           |                        | ) 🤉       | 1            | 1. ·    | \$0        |     |
|                           | Equipment                       | 1                      | 1 3       | 1            | 1       | 50         |     |
|                           | Lab Testing                     | ļ <u> </u>             | <u> </u>  | 500.00       | 23      | \$0        |     |
| Subtotal                  |                                 |                        | ļ         |              |         |            | 5(  |
| Contingency               | (15% capital costs)             | NA                     |           | 0.00         | LS      | \$0        |     |
| Total Annual Operatio     | no Fast                         |                        |           |              |         |            | •   |
| i stat vuunni oberatii    | ny Lest<br>Yea                  | - KA                   | ł         | 1            |         | ]          | \$  |

ea: each

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hr: hour

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IC: indirect capital cost

NA: not applicable for this alternative

#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No.1 No Action

#### Annual System Operation Cost Detail

|                                             | 'রই                                                 | Cuantity       | Bate     | Units          | Frequency    | Yearist of AOC Excenditure | Totaliyear |
|---------------------------------------------|-----------------------------------------------------|----------------|----------|----------------|--------------|----------------------------|------------|
| Operating Labor Cost                        |                                                     | 1              |          | T              |              | NA NA                      |            |
| (Post Construction)                         | (tern 1: Groundwater monitoring                     | † o            | ļ        | N              | 1            |                            | \$0        |
|                                             | item 2: Trainm;                                     | 1 3            | }        | LS             | 1            |                            | \$0        |
| Subtotal                                    |                                                     | <b>†</b>       |          | 1              | t            |                            | \$0        |
|                                             |                                                     | 1              | ·        |                |              |                            | 1          |
| Routine Maintenance Materials               | and Labor Eost                                      | Î –            |          | Ţ              |              | NA                         | 1          |
|                                             | tem 1: Groundwater montoring appual maintenance     | 1 0            | ŕ        | LS             | 1            |                            | 1 \$0      |
|                                             | tem Z: SVElair sparge wei annual maintenance        | 0              |          | LS             | 1            |                            | \$0        |
|                                             | item 3: SVEI air sparbe system annual maintainence  | 1 0            |          | LS             | ł i          |                            | \$0        |
| Subtotal                                    | <u> </u>                                            |                |          | 1              |              |                            | \$0        |
| Auxiliary Materials and Energy              |                                                     | <u>{</u>       |          | +              | <u></u>      |                            | 1          |
|                                             | Process Chemical                                    | . a            |          | LS .           | }            |                            | \$ \$0     |
|                                             | Electricity                                         | 0              |          | 15             | ]            |                            | \$0        |
|                                             | Water                                               | ) <sub>D</sub> |          | 15             | 1 1          |                            | 54         |
|                                             | Sewer                                               |                |          | LS             |              |                            | 51         |
|                                             | Fuel                                                | 1 0            |          | is             | ļ            |                            | 30         |
| Subtotal                                    |                                                     |                |          | 1              | [            |                            | \$0        |
|                                             |                                                     |                |          | ţ              | i            |                            | 50         |
| Dispusal of Residues                        |                                                     |                |          | <del>†</del> — |              | NA                         | <u> </u>   |
|                                             | Wash water, SLope etc.                              | [              |          | lis            | 1 1          |                            | <b>\$0</b> |
| Subtotai                                    | TASI WER, SECTE CIL.                                | "              |          | L.J            | <del> </del> |                            | 50         |
|                                             |                                                     |                |          |                | {            |                            | } **       |
| Purchased Services                          | <u></u>                                             |                |          | 1              |              | NA                         | <u> </u>   |
|                                             | Protessional Servers                                |                |          | í              | [ {          |                            | [          |
|                                             | item I: Labration Fees                              | c a            |          | LS             |              |                            |            |
|                                             | item 1: Lappa (ar ress<br>item 2:                   | 0              |          | LS IS          | ! !          |                            | \$0        |
|                                             | hen 3:                                              | 0              |          | LS .           | 1 1          |                            | \$0        |
| Subtoral                                    |                                                     |                | <u> </u> | 10             |              |                            | \$0<br>\$0 |
| 39716161                                    |                                                     |                |          | Í              | [            |                            |            |
| Other:                                      |                                                     |                |          | 1              |              | NA                         |            |
| Adminuteness cases and anciented an other 1 | ine films                                           | 0              |          | ls             | [            |                            | \$0        |
| manage (1% of quarter come promote for      | sach year of treatment)                             | 1              | 0        | <u>នេ</u>      |              |                            | \$0        |
| lares, Bearing, permit removal 64% of es    | and cauta provided for allea at waie of Understands | 1              | 0        | 15             |              |                            | \$0        |
|                                             | castis interpret for each way or my somewill        | 1              | 0        | ្រៃ [          |              |                            |            |
| Subtotal                                    |                                                     |                |          |                |              |                            | \$0        |
| Tetal Annual Operating Cost                 |                                                     |                |          | -              |              |                            |            |
|                                             |                                                     | ļ              |          |                |              | 1                          |            |
|                                             | j                                                   | }              |          |                |              |                            |            |

Number of years of implementation:

2

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AQC: annual operating cost htt hour LS: fump sum NA: not applicable for this alternative SVE: soit vapor extraction IC: indirect capital Cost

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## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No.2 Institutional Controls

Brack Capital Cast - David

|                                                                                                                                              | 7 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| partin genten in arres                                                                                                                       | Well appealered (50 hant, 5 )-6 despite and a site street works)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Segundentestoneng meth<br>Inglaument debilts<br>Segundentestonen information<br>Segundentestonen information<br>Segundentestoneng pi kung of | Science:         Science:           Excercise:         Science:           Excercise:         Science:           Science:         Scien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | 0<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 2.55<br>5.25<br>0.90<br>300.90<br>2.51<br>220.90<br>110.90                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Segundenselong mptk<br>Inglassend dates<br>Segundensed dates<br>Segundenselong pot kind of                                                   | Experier und     Formungster destabled protect     Excerviser de velation protecture     Excerviser de velation protecture     Excerviser de velation protecture     Excerviser de velation     Excerviser         |                       | 0<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 2.55<br>5.25<br>9.90<br>300.90<br>2.51<br>230.02<br>110.80<br>2.50<br>2.50<br>2.50<br>2.50<br>2.50<br>7.00<br>0.00<br>10.00 |                                                                                                                                                                                                                                                                                                                                                                                                                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| Segundentestoneng meth<br>Inglaument debilts<br>Segundentestonen information<br>Segundentestonen information<br>Segundentestoneng pi kung of | Experiment     Forwards and proce     Experiment and proceedings of the experiment of the experiment     Experiment of the experiment of the experiment     Section and the experiment     Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Segundentestoneng meth<br>Inglaument debilts<br>Segundentestonen information<br>Segundentestonen information<br>Segundentestoneng pi kung of | Science of an address of the second                        |                       | 0<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 2.55<br>5.25<br>9.90<br>300.90<br>2.51<br>230.02<br>110.80<br>2.50<br>2.50<br>2.50<br>2.50<br>2.50<br>7.00<br>0.00<br>10.00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Bullding 1158 - Alternative No.2 Institutional Controls

#### Indirect Capital Cost Detail

|                           | item                            | Year of 10 Expenditure | Guardote | Rate         | Units      |          | Cast     |
|---------------------------|---------------------------------|------------------------|----------|--------------|------------|----------|----------|
| Engineering: Design to In | nciementation                   | J J                    |          |              |            |          |          |
| •                         | Administration and supervision  |                        | 80       | 85.00        | hr         | \$6,800  |          |
|                           | Design and development          |                        | 80       | 75.00        | hr         | \$6,000  |          |
|                           | Drafting                        |                        | -48      | <b>85.30</b> | hr         | \$3,120  |          |
|                           | Monitoring and testing (Year D) |                        | 0        | 0.00         | <b>1</b> 1 | \$0      |          |
|                           | Project angineering             |                        | 80       | 65.00        | hr         | \$5,200  |          |
| Subtotal                  |                                 |                        |          |              |            |          | \$21,120 |
| Engineering : Decommus    | sioning                         | 30                     |          |              | İ          |          |          |
|                           | Administration and supervision  |                        | 8        | 85.00        | hr         | \$580    |          |
|                           | Design and development          | 1                      | 15       | 75.00        | hr         | \$1,200  |          |
|                           | Drating                         |                        | 24       | 65.00        | hr         | \$1,560  |          |
|                           | Monitoring and testing          |                        | 9        |              | 1          | \$0      |          |
|                           | Project engineering             |                        | 80       | 65.00        | hr         | \$5,200  |          |
| Subtotal                  |                                 |                        |          |              | 1          |          | \$8,640  |
| License/Permit/Legal      | (18% engineering costs)         | D                      | 1        | 2,976.00     | 12         | \$2,976  | \$2,970  |
| Start-up and Shake Dov    | wn of Treatment System          | AK                     | <u> </u> | <u> </u>     | i -        | 1        |          |
|                           | Materials                       |                        |          | 1,000.00     | 62         | \$0      |          |
|                           | Labor                           |                        | 0        | 65.90        | hr         | \$0      |          |
|                           | Equipment                       |                        | 0        | 1,000.00     | 122        | \$0      |          |
|                           | Lab Testing                     |                        | <u> </u> | 500.90       | lea        | \$0      |          |
| Subtotal                  |                                 |                        |          |              |            |          | \$1      |
| Contingency               | (15% capnal coxts)              | 5                      | 1        | 7,320.90     | LS         | \$7,321  | \$7,32   |
|                           |                                 |                        | <br>     |              |            |          | 471.41   |
| Total                     | Yz                              | ļ                      |          | ļ            |            |          | \$31,41  |
|                           | Ye                              | ar <u>30</u>           | <u> </u> |              |            | <u> </u> | 18.54    |

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ea: each

hr: hour

IC: indirect capital cost

LS: kump sum

NA: not applicable for this alternative

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No.2 Institutional Controls

#### Annual System Operation Cost Detail

|                         | 'tan                                  |                                       | Eusauty ·  | Rate     | Units    | Frequency    | Yearis) of ADC Expenditure | Totzüyear    |
|-------------------------|---------------------------------------|---------------------------------------|------------|----------|----------|--------------|----------------------------|--------------|
| Operating Labor Cost    |                                       |                                       | i          |          |          | 1/Year       |                            |              |
| Post Construction)      | Hem 1: Groundwater monito             | 1144                                  | 20         | 65.00    | hr       | 1            | 1 to 30                    | \$1,300      |
| 16021 C 9U2110C19001    | hem 2: Transig                        |                                       | 1          | 200.00   |          |              | 1 to 30                    | \$200        |
| Subtotal                | 11620 \$: 113089g                     |                                       |            |          |          | t            |                            | \$1,500      |
|                         |                                       |                                       |            |          |          |              | <u> </u>                   | <u> </u>     |
| Routine Maintenance N   | laterials and Labor Cost              |                                       |            |          |          | 1/Year       |                            | 45.00        |
|                         | iten 1: Grounowater monal             | sting annual maintenance              | 1          | 500.00   | LS       | ļ            | 1 to 30                    | \$500        |
|                         | hen 2: SVElair sparge well.           |                                       | 0          |          | LS       | 1            |                            | \$[          |
|                         | Item 3: Sampling field kit            |                                       | 2          | 75.00    | day      | <u> </u>     | 1 10 30                    | \$150        |
| Subtetal                |                                       |                                       |            |          |          |              |                            | +050         |
| Auxiliary Materials and | Source                                |                                       | <u> </u>   |          |          |              | NA                         | 1            |
| MATERIA WAGENERS AND    | Process Chemicals                     |                                       | 1 5        |          | lıs      |              |                            | \$(          |
|                         | Electricity                           |                                       |            |          | LS       | [            |                            | 50           |
|                         | Water                                 |                                       | Ì          |          | lis –    |              | 1                          | \$           |
|                         | Sewar                                 |                                       | 0          | 1        | LS       | 1            | 1                          | \$           |
|                         | Sewar<br>Funi                         |                                       | İ          |          | LS       | İ            |                            | 1 \$6        |
| Subtotal                |                                       |                                       | 1          |          | 1        |              |                            | \$6          |
|                         |                                       |                                       | <u> </u>   | !        | <u> </u> | 1<br>11Tear  |                            | <del>\</del> |
| Disposat of Residues    | illingh upper civites and             |                                       | ,          | 508.00   | 15       | 15 1 10      | 7 to 30                    | \$500        |
| Subtatel                | Wash water, sludge, est.              | · · · · · · · · · · · · · · · · · · · | <u> </u>   |          |          |              | i                          | \$500        |
|                         |                                       |                                       | <u> </u>   |          | <u> </u> | <u> </u>     | <u> </u>                   | <u> </u>     |
| Purchased Services      |                                       |                                       | 1          | ]        | 1        | 1/1/1224     |                            |              |
|                         | Professional Services                 |                                       |            |          |          |              | T to 30                    | \$2,50       |
|                         |                                       | here it Laboratory Fees               | 4          | 1        |          | 1            | 110,00                     | 12.20        |
|                         |                                       | Here 2                                |            |          | LS<br>LS | 1            |                            | 5            |
|                         | ·                                     | hen 3:                                | 0          | <u> </u> | 100      | <u>}</u>     |                            | \$2.50       |
| Subrotal                |                                       |                                       |            |          | 1        | l            |                            |              |
| Other:                  | · · · · · · · · · · · · · · · · · · · | <u> </u>                              | Ì          |          | Ī        | 1/Yean       |                            |              |
|                         | ot included in other fine stems       |                                       | 1 0        |          | LS       | 1            |                            | 5            |
| Insurance               |                                       |                                       | 1 6        | 0.00     | ijus –   |              |                            | \$           |
| Taxes, licensing, permi | t renewal                             |                                       | 1 0        | 0.00     | LS       | 1            | 1                          | \$           |
| Maintenance Reserve     |                                       |                                       |            |          |          |              |                            |              |
|                         | orated for each year of implem        | ENTRION                               | 1          | 93.54    | ιIS      |              | 1 to 30                    | \$9          |
| Subtotal                |                                       |                                       |            |          |          |              |                            | \$9          |
|                         |                                       |                                       | <u>+</u> - | <u> </u> | +        | <del>}</del> |                            | Ť.           |
| Total Annual Operat     | ing Cost                              |                                       |            |          | 1        |              | 1 to 30                    | \$5,24       |

Number of years of implementation:

30

ABC: annual operating cost hr: bour LS: Jump sum NA: not applicable for this alternative SVE: soil vagor extraction

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#### Fart Wainweight OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 3 Soil Vaper Extraction. Groundwatar Air Sparging and Monitoring

Smart Cantal Cart - Detail

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tax of SC Emotion 1                               |             |              | nt Teau        |
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| ryn jannad yn Walla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Trancing to the town (50', 7' down neurops to such well, well have be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   | •           | 64\$ 50 (as  | 12             |
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| bernet #idlo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Will antalanter (20-fan, 4" Sources, PCC, auge representer weber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   | i i         | 120 25       | -              |
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| C (restante)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11770 providence (al paramet everythink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>                                          |             | Z.55 C       |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lafare a second of a single second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco                                                                                                                                                                                                                                             |                                                   | Į •         | 3.2          |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Seguran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1                                                 | 1           | 15,000,00    |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Conferences and sample materials parent sets () sampe-200 CT treatest sell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                 | <u> </u>    | 670.00       |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |             |              |                |
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LTD: for important for the set of pot applicate to the starmer PC2 potpoint therein ST: sparse but ST: sparse year ST: sparse year

#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 3 Soil Vapor Extraction, Groundwater Air Sparging and Monitoring

#### Indirect Capital Cost Detail

|                            | item                           |             | Year of IC Expenditure | Quantity | Rate         | Uants      | <u> </u> | Çost     |
|----------------------------|--------------------------------|-------------|------------------------|----------|--------------|------------|----------|----------|
| ingineering: Design to Irr | pienestation                   | }           | 0                      |          |              |            | 1        |          |
|                            | Administration and supervision | }           |                        | 80       | 85.00        | hr –       | \$6,800  |          |
|                            | Design and development         |             |                        | 240      | 75.00        | hr         | \$18,000 |          |
|                            | Draftine                       |             |                        | 144      | 65.00        | hr         | \$9,350  |          |
|                            | Monitoring and testing (Year O |             |                        | 0        | 9.00         | <b>e</b> 2 | \$0      |          |
|                            | Project angineering            | ł           |                        | 240      | <u>85.00</u> | hr         | \$15,600 |          |
| Subtotal                   |                                |             |                        |          |              |            |          | \$49,760 |
| Engineering : Decommiss    | ioning                         |             | 3                      |          |              |            |          |          |
|                            | Administration and supervision |             |                        | 15       |              |            | \$1,360  |          |
|                            | Basign and development         | l           |                        | 20       | 75.00        | 1          | \$1,500  |          |
|                            | Drafting                       |             |                        | 24       | 65.00        | 1          | \$1,580  |          |
|                            | Monitoring and testing         |             |                        | 0<br>1   | 65.00        |            | 50       |          |
|                            | Project engineering            |             | . <u></u>              | 40       | 55.00        | phr        | \$2,500  |          |
| Subtoral                   |                                |             |                        |          |              |            |          | \$7,020  |
| License/Permit/Legal       | (10% engineering costs)        |             | 0                      | T        | 5,578.00     | -          | \$5,678  | \$5,676  |
| Start-up and Shake Dov     | vn of Treatment System         |             | C                      | 1        |              |            |          |          |
|                            | Materials                      |             |                        | 1 1      | 100.00       | 1          | \$100    |          |
|                            | Labor                          |             |                        | 40       | 65.00        | hr         | \$2,600  |          |
|                            | Equipment                      |             |                        | 1        | 106.00       | 1          | \$100    |          |
|                            | Lab Testing                    |             |                        | 4        | 500.00       | ea<br>-    | \$2,000  |          |
| Subtorat                   |                                |             |                        | ļ        |              | 1          |          | \$4,800  |
| Contingency                | (15% capital costs)            | <del></del> | 0                      | 1        | 23,216.38    | LS         | \$23,216 | \$23,211 |
|                            | <u> </u>                       |             |                        | Ī        |              |            | 1        | 487.40   |
| Total                      |                                | Year        | 0                      |          |              |            |          | \$83,45  |
|                            |                                | Year        | 3                      | <u> </u> |              | <u>,</u>   | <u> </u> | \$7,02   |

ea: each

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hr: hour

(C: indirect capital cost

LS: lump sum

#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1158 - Alternative No.3 Soil Vapor Extraction, Groundwater Air Sparging and Monitoring

#### Annual System Operation Cost Detail

|                           | lten                                         | Cuantay  | Rate                                  | Units         | Frequency | Yearist of AOC Expenditure            | Totallyear |
|---------------------------|----------------------------------------------|----------|---------------------------------------|---------------|-----------|---------------------------------------|------------|
| Iperating Labor Cost      |                                              |          |                                       |               | liyear    |                                       |            |
| Post-Construction         | tem it Groundwater monitoring                | 12       | 65.00                                 | hr i          | f         | 1 to 10                               | \$786      |
| 1021-CONSTRUCTION         | tien 2: SVEIAS system monitoring             | 52       | 65.00                                 | hr            | 1         | I to 3                                | \$3,38     |
|                           | hem 3: Traning                               | 1,       | 400.00                                | LS            |           | T to 10                               | \$400      |
| Subtotal                  | 1040, 1101049                                |          |                                       |               |           | 1 to 10                               | \$1,180    |
|                           |                                              |          |                                       |               |           | 1 to 3                                | \$3,380    |
| Routine Maintenance W     | ateriais and Labor Cost                      |          |                                       |               | 1/year    | 1 to 10                               | \$500      |
|                           | er monitoring annual maintenance             | 1        | 500.00                                |               |           | 1 to 3                                | 3500       |
| item 2: SVEJan sta        | rge system annual maintenance                | 1        | 500.00                                |               | ļ         | 1 te 10                               | \$7        |
| Item 3: Sampling fi       | eid kit                                      | 1        | 75.00                                 | (62¥          |           |                                       | \$57       |
| Subtotal                  |                                              | Í        |                                       |               |           | 1 to 10<br>1 to 3                     | 1500       |
|                           |                                              |          | <u></u>                               | <u></u>       | liyear    |                                       | 1          |
| Auxiliary Materials and i | Process Chemicals                            | 1 0      |                                       | LS .          |           |                                       | \$         |
|                           | Frocess contractors<br>Electricity (Phase 3) | 1        | 14,200.00                             | 1             |           | 1 to 3                                | \$14,200   |
|                           | Electricity (Phase 2)                        |          | 1                                     |               | ł         |                                       | s s        |
|                           | Mater                                        |          | 1                                     | LS .          |           |                                       | \$6        |
|                           | Sewar                                        |          | ŀ                                     | LS            | 4         |                                       | \$         |
|                           | ¢ense<br>Fuel                                | 1        | 200.00                                | 1             | 1         | 1 to 10                               | \$20       |
| Subtatal                  |                                              |          |                                       | 1             | 1         | 1 to 10                               | \$200      |
| Sublatat                  |                                              | 1        | Į                                     | 1             |           | 1 10 3                                | \$14,200   |
|                           |                                              |          | <u>[</u>                              | <u>ι</u><br>τ | 1hex      |                                       | 1          |
| Disposal of Residues      |                                              | 1,       | 500.00                                | il e          | 1114-ENC  | 1 to 10                               | \$50       |
| Subtotai                  | Wash water, skudge, act.                     |          | <u> </u>                              | 1             |           | T to 10                               | \$500      |
|                           |                                              |          | <u>!</u>                              | <u> </u>      | <u> </u>  | 1                                     | <u> </u>   |
| Purchased Services        |                                              | 1        |                                       | Į.            | 1likeer   | 1 to 10                               |            |
| Professional Serv         |                                              |          |                                       |               |           |                                       | \$2.50     |
|                           | Item 1: Laboratory Fees                      | 4        | }                                     |               | ł         |                                       | \$13       |
|                           | Item 2: Engineer review/ consultation        | 2        | 1                                     | month         |           | 1                                     | \$         |
|                           | item 3:                                      |          |                                       | is.           |           | 1 to 10                               | \$2,63     |
| Subtotal                  |                                              |          | Í                                     | ł             |           | 11010                                 | \$2.00     |
| 01.her:                   |                                              | <u> </u> | <u></u>                               | <u>† – –</u>  | ilyex     | 1 10 10                               |            |
|                           | t included in other line items               |          |                                       | នេ            |           |                                       | \$         |
| insurance                 |                                              |          | e e e e e e e e e e e e e e e e e e e | LS            |           |                                       | \$         |
| Taxes, licensing, perfit. | revewal                                      | 1        |                                       | LS            |           |                                       | \$         |
| Maintenance Reserve       |                                              |          |                                       |               |           | ł                                     |            |
|                           | crorated for each year of implementation)    |          | 889.98                                | is            |           | <u> </u>                              | \$89       |
| Subtotal                  |                                              |          | 1                                     |               |           | 1 to 10                               | \$89       |
|                           |                                              |          | <u>I</u>                              | <u> </u>      | +         | · · · · · · · · · · · · · · · · · · · | 1          |
| Tatal Annual Georges      | ng Cast (includes GW Monitoring)             | 1        | ļ                                     | ļ             | 1         | 1 to 3                                | \$24,05    |
| rerei kunnei obei stu     | · · · · · · · · · · · · · · · · · · ·        | 1        |                                       |               |           | 4 to 10                               | \$5,97     |
|                           | in the Destine of Taxal Afth                 |          |                                       |               |           | 1 to 10                               | \$3,78     |
| Groundwater Mar           | exoning Portion of Total AOC                 | 1        |                                       | 1             | 1         | 1                                     | 1          |

Number of years of incidentiation:

10

ADC: annual operatory cost AS: aix sparge hrt hour LS: lump sum SVE: soil vapor extraction GW: groundwater

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#### Fort Wainwright OU 2 Feasibility Study Baseline Cast Estimate - Building 1168 - Alternative Ma. 4 Alternative 3 Plus Excavation and £370 of Contaminated Unsaturated Soil

Dengi Capital Gart - Detail

| • •                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ther we did Easternimers              | ()       | Res             | <b>1</b>      | Tetal      |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|-----------------|---------------|------------|
|                                  | Will an fallenan 50 lage, 2 ),4" darrertar Black grav, arren ands)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>                              | } •      | 1446.35         | -             | 15.547 0   |
| a ya ina saya 1946               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ļ                                     | 1        | 129.25          |               | \$441,9    |
|                                  | Transform to fun hunde 60° 2' door poorage ter same well, delt burthill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |          | 545.50          | <u>ا</u>      | 12546.0    |
|                                  | Marine and and part off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |          | \$50 15         | i             | 11,400.B   |
|                                  | figure in tarimage fåll som ap in som mull arte som fillare på best state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |          | 150 00          |               | 1500.0     |
|                                  | Yalves and Arcage for such All of papers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |          | 15,000 80       |               | \$10,000 0 |
|                                  | Bauperge brettebilte mit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u> </u>                              | <u> </u> | 1,790 10        | 1             | 12,200.0   |
| Liðnarnari Walls                 | West manufarmen 120 fung 6' dismarent, Pr.C. sagar region Status ander                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 -                                   | 1        | 129.75          |               | 1179.2     |
|                                  | Trunchung im fan banne (50°, 2° deue average far oans wed, wel, bertifft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |          | 646 SA          | 1             | 1646.5     |
|                                  | Manhala anta anno (an and)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |          | #54 15          |               | 1850.1     |
|                                  | Piging 19: Annuare 50° server der nich well web von spesielite Sie biet WEB<br>Veren mit fermen der nich ein ei serve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |          | 159.60          | 115           | 4150.0     |
|                                  | a state and a state of a state of the state of the state of the state of the state.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | i .      | 10              | 51            | 10.0       |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          | 10,000 00       |               | 110,000.0  |
|                                  | Gerrent is a mainte terr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ÷                                     |          | -               |               | 10.9       |
| LiSparge (no House               | Perint Internet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                     |          | 2.051.00        |               | 12,053.0   |
|                                  | teres and the second second second second second second second second second second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          | 1               |               | 12.0       |
|                                  | Wide Lawrite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                                     | 1        | •               |               | 11,202.8   |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 1        | 2121.0          |               | 10 0       |
|                                  | Duct laurer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | i                                     | !,       | 1               |               | 15,051.9   |
|                                  | Estructure Manuar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | 1,       |                 |               | 11,217.9   |
|                                  | Canalassista concernar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                     |          | 1 .             |               | 10.0       |
|                                  | iter barer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |          |                 |               | FD 3       |
|                                  | Deer laver with he's arran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 1        | 1               |               | 110,344.0  |
|                                  | Extense Generale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | i                                     | 1        | 1 141 75        |               | 16,848.3   |
|                                  | Surgenses grange, front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | 1        | 387,80          |               | 1337 4     |
|                                  | Sampang parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | 1        | 1,000 65        |               | 11,006,0   |
|                                  | launi ava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | Ι,       | 2175            |               | 12.176.0   |
|                                  | Topping and an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | (        | 1,000,90        | ła –          | 10.0       |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                     | 1.       |                 |               | 2.01       |
| 10 Transme                       | (LTG process (crystate state)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - NA                                  | 1560     | <b>N</b> N N    | 107           | +151,222.9 |
|                                  | Excession Grades establish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 5700     | 25              |               | 114,535.0  |
|                                  | Collection of plan intervent funding in plantic vibrait                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | 1564     | 5.25            | CT .          | 14,190,0   |
|                                  | Confirmation was sample analytical-according topics, 1 angles 200 C7 as constant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       | 25       | , xxx ex        |               | 18,700,8   |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | <u>ا</u> | 5.000 #0        | 1.5           | 15,000.0   |
|                                  | , Buddif huntari ya wajanji 1100-17000 (111 patrimi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       | (        | 2.57            | (cr           | 10.0       |
|                                  | Laifé earsaidhe anna dan anna an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       | 4400     | 1.5             | (cr           | 16,756.9   |
|                                  | () and the second and an Phil level of the period of success                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | 1560     | 6.00            | CT .          | 10.0       |
|                                  | tranget is bereifit eines fit if departs of trenut ants of PV institit isspectus opposes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | 1550     | 2.8             | CT .          | 14,661.4   |
|                                  | Le enti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |          | 1 13            | 8             | 100        |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          |                 |               | 40.0       |
| inification sportional community | See any caller to the set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | ) ;      |                 |               | 10.0       |
|                                  | Encourse Graine wines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |          |                 |               | 10.0       |
|                                  | Marine, process<br>Confirmations and submits shalf-marine analysismes from 1: superstat/200 CV strainments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 0        |                 |               | 10.0       |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          | 1 2.54          | 103           | 1 16.0     |
| generat Par- 8-apte              | Castoreran and training                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | .        |                 |               | 10.0       |
|                                  | Transferry sacrage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       | 6        | 13,009.45       | IS            | 10.0       |
|                                  | Confronting and sample self-rand- exceptions ings, 1 compts/260 CV exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | (        | 300 80          | j.            | 100        |
| and the SVE Page                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          | 1 255           | a             | 10.0       |
|                                  | Canal And and Andrease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | .        | 12.11           | CY .          | 100        |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | .        | 19,344.30       | 1.5           | 0.01       |
|                                  | Freedalister tertere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       | 1 .      | 5,000.00        | ls -          | 100        |
|                                  | Castingenerate and surger provincel incommune state, 3 arrange 200 CV in commune                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ł                                     | 14       | 300.00          |               | \$ 100     |
|                                  | Element de Balla (Tarta)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 14                                  |          | 1 25            | <u>6</u>      | 100        |
|                                  | Carefordia Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1                                     | 1 1      | 1 70            | a -           | 100        |
|                                  | Transfering to the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                     | 1 0      | 5.800 80        | LS .          | 4 199      |
|                                  | Cardinanar pel sanan anjracal metersian biah, 1 parami290 (7 millionial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |          | 300 80          | -             | 10.0       |
| aniami Aist in ideine            | Red materians are several s25-tart, 4" dasterer, 7.5 C. auger reportions weitt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 2                                   | 1        | 2.950 00        |               | \$5,900.0  |
| Cavitana Shering                 | Shalling mighadadhan and compare a some re-samelin at 15 Soirt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | · · · ·                               | 320      | 27.63           | ļu —          | ±3,596,0   |
| annan an Saya Parting            | A state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th | <del>} w</del>                        | 1        | 16.4)           | U.            | 10.0       |
| progra (m. Starter (1) billing   | Pressure for member appropriate (Bandhall 1162 and every pressure)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 1                                   | 5700     | <del>ذ: 1</del> | CY            | 214,535.D  |
| Product of States                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | <u> </u> | 220.00          | -             | \$2,750.0  |
| Children is printing the         | Personal parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 35       |                 |               | \$3,450.0  |
| Lana Hol-spir Sod at             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | · · · · · · · · · · · · · · · · · · · |          | 1               |               | 10.0       |
| n Wainerski (2000)               | المراجع ومراجع والمراجع المراجع المراجع المراجع المراجع                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                     | { •      |                 |               | 10.0       |
|                                  | Digenti la passal Salarat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | ( e      |                 | a             | 12.0       |
|                                  | Cardinance and surger and your exceeds instally respect200 CY at commute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | 1.       | 300.00          |               | 10.0       |
|                                  | Landrenser and andre starter at the second rank of second car and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                     |          |                 |               | 10.0       |
|                                  | Walt (SYE, an approximated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>- ; .</del>                      | 1        | 220 40          | 1.            | +2,200.9   |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          |                 | -             | 1380.9     |
| d el Game Actes                  | Nali (anonaranji ranova)<br>Rođenja poslatelja do koment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                     |          |                 |               | 10.0       |
|                                  | Perturbantly included probe reported<br>Undergraph paper resident, space barriell, hand and discours at PM boolfd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                     | 500      |                 |               | 1.905.0    |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                     | 17       |                 |               | 10.0       |
|                                  | f aginesi pinindire danarini na sini pini pini ni ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                     | .        | 525             |               | 10.0       |
|                                  | Handag manas and an placement sense                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 1                                   | 1        | 1,700.50        |               | 11,700.0   |
|                                  | far hann dersverseren en sekkel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 1        | 10,000 30       |               | 110,000.0  |
|                                  | Se rearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |          | \$20.00         |               | 13,100,8   |
|                                  | Colomber and sense segment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | <u> </u> |                 | <del> -</del> | 148,617.1  |
| rivie                            | )m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       | 1        | ł               | 1             | 1262.565.2 |
|                                  | Tan Tan Tan Tan Tan Tan Tan Tan Tan Tan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | 1        | I               | I I           | 1712300.2  |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |          |                 |               |            |

DC: direct capital cast Like on applicable for the starration on cash PVC: plyonet calcula

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 4 Alternative 3 Plus Excavation and LTTD of Contaminated Unsaturated Soils

#### Indirect Capital Cost Detail

|                          | ltem                           | rear of #C Expenditure | Quantity   | Rate         | Units        | 1        | Cost                   |
|--------------------------|--------------------------------|------------------------|------------|--------------|--------------|----------|------------------------|
| ngineerung: Design to im | aplementation                  | 0                      |            |              |              |          |                        |
| • • •                    | Administration and supervision |                        | 80         | 85.00        | hr           | \$6,800  |                        |
|                          | Design and development         |                        | 240        | 75.00        | pr.          | \$18,000 |                        |
|                          | Orafting                       |                        | 168        | 65.00        | hr i         | \$10,920 |                        |
|                          | Monitoring and testing (Year 🕅 |                        | 0          | 0.00         | 22           | \$D      |                        |
|                          | Project engineering            |                        | 240        | 65.00        | শ            | \$15,600 |                        |
| Subtotal                 |                                |                        |            |              |              |          | \$51,320               |
| Engineering : Decommiss  | ioning                         | 3                      |            |              |              |          |                        |
|                          | Administration and supervision |                        | <b>5</b> 0 | 85.00        |              | \$5,300  |                        |
|                          | Besign and development         |                        | 100        | 75.00        | ]            | \$7,500  |                        |
|                          | Drafting                       | ·                      | 95         | <b>65.00</b> |              | \$5,240  |                        |
|                          | Monitoring and testing         |                        | 0          | 65.00        | Í            | \$0      |                        |
|                          | Project angineering            | · · -                  | 160        | 00.23        | <del>م</del> | \$10,400 |                        |
| Subtotal                 |                                |                        |            |              |              |          | \$29,240               |
| License:Permatlegal      | (10% engineering costs)        | 0                      | 1          | 8.056.00     | 22           | \$8.056  | \$8,056                |
| Start-up and Shake Bow   | m of Treatment System          | 0                      |            |              |              | {        |                        |
|                          | Materials                      |                        | 1          | 190.00       | 22           | \$190    |                        |
|                          | Labor                          |                        | 45         | SS.00        | ħ            | \$2,800  |                        |
|                          | Equipment                      |                        | 1          | 100.00       | ei -         | \$100    |                        |
|                          | Lab Testing                    |                        | 4          | 500.00       | ez           | \$2,000  |                        |
| Subtotal                 |                                |                        |            |              |              |          | \$4, BCK               |
| Contingency              | (15% capital costs)            | 0                      |            | 63.824.86    | ٤            | \$63.825 | -<br>\$63, <b>8</b> 25 |
| <u> </u>                 |                                |                        |            |              |              |          | \$128,00               |
| Total                    | Year                           | ٥                      | ]          |              |              |          |                        |
|                          | Year                           | 3                      | 1          |              | <u> </u>     | <u> </u> | \$25,24                |

ea: each

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hr: hour

IC: indirect capital cost

LS: lamp som

#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No.4 Alternative 3 Plus Excavation and LTTD of Contaminated Unsaturated Soil

#### Annual System Operation Cost Detail

|                                        | item                                             | Guantitiv | Rate         | Uans     | 51800 <b>001CY</b> | Yearist of ABC Expensioners | Totaliyear     |
|----------------------------------------|--------------------------------------------------|-----------|--------------|----------|--------------------|-----------------------------|----------------|
| perating Labor Cos                     |                                                  |           |              |          | liyear             |                             | j              |
| pearing Lagor Cos<br>Past Castly ation | i<br>Item 1: Sroundwater monitoring              | 12        | \$5.00       | N        |                    | T to 10                     | \$780          |
| - 031-CONSTRUCTION                     | hen 2: SVEIAS system monitoring                  | 57        | <b>55.00</b> | hr d     |                    | 1 10 3                      | \$3,380        |
|                                        | Item 3: Training                                 | 1         | 400.00       | LS .     |                    | <u>1 to 10</u>              | \$400          |
| Subtotal                               | iten 5. Daneig                                   |           |              |          |                    | 1 to 10                     | \$1,180        |
| 5401012)                               |                                                  |           |              |          |                    | 1 to 3                      | \$3,380        |
| Luxibary Materials a                   | nd Energy                                        | 1         |              |          | iiyear             |                             |                |
|                                        | ham 1: Groundwater monitoring annual maintenante | 1         | 500.00       |          |                    | ∫ īte tū                    | \$500<br>\$500 |
|                                        | item 2: SVEIAS system annual maintainence        | 1 1       | 508.00       | LS       |                    | 1 to 3                      |                |
|                                        | frem 3: Sampling field kit                       | 1         | 75.00        | dav      |                    | <u>1 to 10</u>              | \$75           |
| Subtotal                               |                                                  |           |              |          | 1                  | 1 to 10                     | \$575          |
|                                        |                                                  | ļ         |              |          |                    | 1 to 3                      | \$500          |
| Aunikary Materials a                   | nd Ensor                                         |           |              |          | Hyear              |                             | \$5            |
|                                        | Process Chemicals                                | 1 0       |              | LS       |                    |                             | \$14,200       |
|                                        | Electricity (Phase 3)                            | 1         | 14,200.00    | 1        |                    | 1 to 3                      | \$14,200       |
|                                        | Electricity (Phase 2)                            | . 0       |              | LS       | }                  | :                           | \$0            |
|                                        | Water                                            | 0         | 1            | LS       | ]                  |                             | 10             |
|                                        | Sewer                                            | 0         |              | LS       |                    |                             | \$200          |
|                                        | Fuel                                             | 1 1       | 200,00       | is       | ļ                  | 1 10 10                     | \$200          |
| Subtotal                               |                                                  |           | ŧ            | 1        |                    | 1 to 10<br>1 to 3           | \$14,200       |
|                                        |                                                  |           | <u> </u>     | <u> </u> | <u></u>            |                             | 1 014,200      |
| Disposal of Residue                    | \$                                               |           | T            | 1        | liyear             |                             | \$500          |
|                                        | Wash water, sludge, ect                          | 1         | 500.00       | <u></u>  |                    | 1 to 10                     | \$500          |
| Subtotal                               |                                                  |           | Í            | ļ        |                    | 1 10 10                     | *300           |
| Purchased Services                     | · · · · · · · · · · · · · · · · · · ·            | 1         | 1            | <u>i</u> | liyzar             |                             | T              |
| Professional                           |                                                  |           | 1            |          |                    |                             |                |
|                                        | trem 3: Laboratory Fees                          | 4         | 1            | 1        |                    | 1 to 10                     | \$2,500        |
| -                                      | item Z: Engineer review/ consultation            | 2         |              | dinom](  |                    | 1 to 10                     | 1 20           |
|                                        | ttem 3:                                          | 10        | H            | ιs       | i                  |                             | \$2,630        |
| Subtotal                               |                                                  |           | l            |          |                    | ) to 10                     | \$2.030        |
|                                        |                                                  |           | <u></u>      | <u> </u> | liver              | 1 10 10                     | 1              |
| Other:                                 |                                                  | 1 0       |              | LS       | cites:             |                             | \$0            |
| Administrative cost                    | is not included in other line items              |           |              | LS       |                    |                             | \$0            |
| Insurance                              |                                                  | 1         |              | LS       |                    |                             | \$0            |
| Taxes, licensing, pa                   |                                                  |           | <b>'</b>     | 1        | ]                  |                             |                |
| Maintenance Reser                      |                                                  |           | 2,445.57     |          |                    |                             | \$2.447        |
|                                        | osts prorated for each year of implementation)   |           | 2,4440.02    | 1        | <u> </u>           | 1 ta 10                     | \$2,447        |
| Subtotal                               |                                                  |           |              | l        |                    |                             |                |
|                                        |                                                  | 1         |              |          |                    | 1 10 3                      | \$25.512       |
| Total Annual Ope                       | rating Cost (includes GW Manitoring)             | 1         |              | 1        |                    | 4 to 10                     | \$7,532        |
|                                        | Having Deriver at Total ARP                      |           |              |          | ļ                  | 1 to 10                     | \$3,780        |
| Graundwater                            | Monitoring Portion of Total ADC                  | 1         | 1            | 1        | 1                  | 1                           | - L            |

Number of years of implementation:

10

ADC: annual operating cost AS: air sparge ea: each hrt how SVE: soil vapor extraction GW: groundwater

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# Fort Wainwright, DU Z Fersönlirty Study Vater Fort Stimate - Suidéne 1164 - Alternetive Neu S Suideid Excending and Engineered File Treement Giophie Suite S Pier Excende and Suite and Suite Soil

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|                                                   | ער איינער איינע איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איי<br>ער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איי<br>ער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איי<br>ער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איינער איי                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                                                   | القار هویکه ویدارنده با منتخبان<br>المهری و به میشود ما است و بیست استان و با بیس از یونیست ( یونیست از میشود)<br>المهری و بیست ما این فیتش با بین میشود و بیست ما این از یونیست ( یونیست از میشود)<br>المیشهای با بیست می با این فیتش از پیست و بیش با این بیست ( یونیست از یونیست )<br>المیشهای بین می بین این و بین و بین این میشود و بیست از یونیست ( یونیست )<br>المیشهای بین می بین این و بین و بین و بین و بین و بین این و بین و بین و بین و بین و بین و بین و بین و بین و بین<br>المیشهای این و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و<br>المیش و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و<br>و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین<br>و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بیز و بیز و بی و بین و بی و بین و بین و بین و بین و بین و بین و                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 1<br>1<br>0<br>0<br>0<br>0<br>0<br>5<br>5<br>5                                                                                                 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بین و بین و بین و بین و بین و بین و بین و بین و بین و بین و بیز و بیز و بی و بین و بی و بین و بین و بین و بین و بین و بین و                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 3<br>0<br>0<br>3<br>3<br>4<br>5<br>5<br>6<br>1<br>                                                                                             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|                                                   | التجنيفة المحافظ من<br>المحافظ والمحافظ محافظ المحافظ محافظ من أكثر محتوظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ محافظ المحافظ br>المحافظ المحافظ br>المحافظ المحافظ r>المحافظ المحافظ                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                   | עים אבועים<br>עים איינעים<br>עים איינג                                                                                                                                                                                                                                                                                     | YIE.       | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                                   | لم بستان و بستان کشترین<br>الم بستان و بستان کشترین<br>الم بین می الم الم الم الم الم الم الم الم الم الم                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                                                   | المن همينان<br>لاحك همان<br>لاحك همان<br>والجهوية ويوارشه اللاح<br>والجهوية<br>المسيحة بعد المسيح المراسية والمسيح 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|                                                   | لان هذها ويواد المحارف وي المحافل<br>لان هذه المحافظ ويواد المحافل<br>المحافظ في المحافظ من المحافظ من ويحمل محافظ من أي المحافظ من المحاف<br>المحافظ ويحمل محافظ الحافظ محافظ محافظ محافظ<br>المحافظ ويحمل محافظ الحافظ محافظ في المحافظ محافظ<br>المحافظ ويحمل محافظ المحافظ محافظ محافظ<br>المحافظ ويحمل محافظ المحافظ محافظ محافظ محافظ محافظ<br>المحافظ ويحمل محافظ المحافظ محافظ المحافظ محافظ محافظ المحافظ<br>المحافظ ويحمل محافظ المحافظ محافظ المحافظ محافظ المحافظ المحافظ المحافظ المحافظ<br>المحافظ ويحمل محافظ المحافظ محافظ المحافظ المحافظ محافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ<br>المحافظ ويحمل محافظ المحافظ br>المحافظ المحافظ br>المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحاف المحاف المحاف المحافظ المحافظ المحافظ المحافظ الم                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | YIE.       | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 00:002/07           SI:1           66"Z           00:0           25"Z           00:002'S           90:002'S           25"Z           00:002'S           25"SZ           25"SZ           00:002'S           25"G2:000'S           00:002'S           0:002'S <td>22 C. C. C. C. C. C. C. C. C. C. C. C. C.</td> <td>DG COL (1)<br/>DG COL (2)<br/>DG COL (2)<br/>DG YEY (2)<br/>DG YEY (2)<br/>DG YEY (2)<br/>DG YEY (2)<br/>DG YEY (2)<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG COL<br/>DG YEY (2)<br/>DG YEY</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 22 C. C. C. C. C. C. C. C. C. C. C. C. 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|                                                   | لان همان<br>لان همان<br>المرابع ويدار المحارك وي فر فريست با و من من المحارك<br>(المحارك المرابع) وي من المحارك وي فريست المرابع<br>(المحارك المحارك المحارك المحارك المحارك وي المحارك ولا المحارك<br>(المحارك المحارك المحارك المحارك المحارك وي المحارك وي المحارك وي المحارك<br>(المحارك المحارك المحارك المحارك المحارك المحارك وي المحارك وي المحارك المحارك<br>(المحارك المحارك المحارك المحارك المحارك المحارك وي المحارك وي المحارك<br>(المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك<br>(المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك<br>(المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك<br>(المحارك المحارك br>(المحارك المحارك >المحارك المحارك br>المحال المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك المحارك الم                                                                                                                    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|                                                   | لان هذها<br>لان هذها<br>لان هذها<br>المجهد و الاراسية بعد سلم<br>المجهد و الحركة و المراسية .<br>المجهد و الحركة المحمة و المراسية و المحمة و المراسية .<br>المحمة المراسية عدم النارية و المحمة من محمة<br>المحمة المراسية عدم النارية و المحمة من محمة<br>المحمة المحمة المراسية المحمة المحمة من المحمة<br>المحمة المحمة المراسية المحمة المحمة المحمة المحمة المحمة<br>المحمة المحمة المحمة المحمة المحمة المحمة المحمة المحمة المحمة<br>المحمة المحمة br>المحمة المحمة br>المحمة المحمة r>ة محمة المحمة ال                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                                                   | اری هی می این می این این این این این این این این این ای                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Jaker Jaker                                       | لا من هذی<br>از من هذی<br>از من هذی<br>از من هذی<br>از من هذی<br>از می از می از می از من می از م خیاستم می از می از می از می از<br>از می از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می از می از<br>از می از می از می از می از می از می از می 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می از می از می از می از می از می از می از می از می از می از می از می از می از می از می از می از می از می از می ازم از می ازم از می از می از می از می                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | YIE.       | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                            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| Jaker Jaker                                       | رجو هيري<br>رجو ميري<br>رجو يري<br>رجو ميري<br>رجو يري<br>رجو ميري<br>رجو r>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم                                                                              | YIE.       | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| ی<br>۱۵۵۲ - محم                                   | رجو هيري<br>رجو ميري<br>رجو يري<br>رجو ميري<br>رجو يري<br>رجو ميري<br>رجو r>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم<br>رم                                                                              | YIE.       | 1<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| ی<br>۱۵۵۲ - محم                                   | ریم هیچ<br>ریم هیچ<br>ریم هیچ<br>ریم هیچ و سیدی هر برای و و ویسم در شدسم می می در از مرسوع و ریدتشمین میبید.<br>(ریموی و میلان میلان و و ویسم در شدسم میلان از میلان این و دردنشمین میبید<br>ویسم در است میلان میلان میلان میلان و این و میلان این و میلان این و میلان این و میلان این و<br>ویسم در است میلان میلان میلان میلان و این و میلان این و میلان این و میلان و<br>ویسم در است میلان میلان و میلان و این و میلان و<br>ویسم در است میلان میلان و میلان و این و میلان و این و میلان این و میلان این و<br>ویسم در است میلان میلان و میلان و میلان و میلان و میلان و این و میلان این و میلان و<br>ویسم در است و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و<br>ویسم در است و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و<br>و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و<br>و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و میلان و 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| Jaker Jaker                                       | رجى مى بىل<br>لەر مىل بىل بىل بىل بىل بىل بىل<br>بىل بىل بىل بىل بىل بىل بىل بىل بىل بىل                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| ی<br>۱۵۵۲ - محم                                   | لین می این می این می این می این می این می این می این می این می این می این می این می این می این می این می این می<br>روی همین و بستری می این می و منصر می می می این این می این این می این این می این می این می این می این می این می<br>روی می این می این می این می این می این می این می این این می این این می این این می این این می این می این این می<br>روی می این می این می این می این می این می این این می این این می این این می این این می این این می این این می این<br>روی می این می این می این می این می این می این این می این این می این این می این این می این این می این این می این<br>روی می این می این می این می این می این این می این این این این این این این این این ای                                                                                                                                                                                                                                                                                                  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| Jaker Jaker                                       | ربع هندی<br>ربع هندی<br>ربع هندی<br>(پاهنه و سیدریه فرخه بر و م و منعه در فرخه مربعه بر<br>(پاهنه و سیدریه فرخه بر و م و منعه در فرخه بر سی بر<br>و مربوع مربع مربع م فرخه مربعه بر فرخه بر و مربعه بر<br>(پاهنه و سیدریه مربعه مربعه مربعه بر<br>(پاهنه و سیدریه مربعه مربعه بر فرخه بر و مربعه بر<br>(پاهنه و مربع مربعه مربعه بر و مربعه بر<br>(پاهنه و مربع مربعه مربعه بر و مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربع مربع مربعه بر و مربع مربعه بر<br>(پاهنه مربعه بر مربعه بر و مربع مربعه بر<br>(پاهنه مربعه بر و مربعه بر و مربع مربعه بر<br>(پاهنه مربعه بر و مربعه ای مربع مربعه بر<br>(پاهن مربعه بر و مربعه ای مربع مربعه بر<br>(پاهن مربعه بر و مربعه ای مربع مربعه بر<br>(پاهن مربعه بر و مربعه ای مربع مربع مربعه بر<br>(پاهن مربعه 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| بالالال الله الله الله الله الله الله ال          | رجم هذی<br>رجم می<br>رجم هذی<br>رجم هذی<br>رجم می<br>رجم                                                                                                                                                                                                                                                         | YIE.       | n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| بالالال الله الله الله الله الله الله ال          | ریم هیچ پی است.<br>ریم هیچ بی است.<br>ریم هیچ و سیدی هر این این و بر ویست در شدست بنی این این این این این این این این این ا                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| بینی روی در ا                                     | ری محتول می در بیسید بر مربسیا محتول<br>روی می در بیسید می در می سیسی در می می می می در می می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می در می 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| بینی روی در ا                                     | رجم هندی<br>رجم هندی<br>رجم هندی<br>رجم هندی<br>رویهاده بر است به است از و جنسه در شدست به نوب از پر دسی و ردیکه به به به ا<br>رویهاده به است از و جنسه در شدست به نمست به به به این از میشود ردیکه به به به ا<br>رویهاده به است است است به به به به به به این از میشود رویس<br>رویهاده به به به به به به به به به به به به به                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 5 Alternative 3 Plus Excavation and Engineered Pile Treatment (biopile or vapor extraction pile) of Contaminated Soil

#### Indirect Capital Cost Detail

|                          | item                            | Year of IC Expenditure | Quantity | Rate                                         | Units    |          | Cost           |
|--------------------------|---------------------------------|------------------------|----------|----------------------------------------------|----------|----------|----------------|
| ngineering: Design to im | upiementā lieft                 | 0                      |          |                                              |          |          |                |
|                          | Administration and supervision  |                        | 80       | 85.00                                        | ħr       | \$8.800  |                |
|                          | Design and development          |                        | 240      | 75.00                                        | br .     | \$18,000 |                |
|                          | Drafting                        |                        | 168      | 55 <b>.0</b> 0                               | tar 🛛    | \$10,920 |                |
|                          | Monitorang and testing (Year D) |                        | 0        | 0.90                                         | 83       | \$6      |                |
|                          | Project engineering             |                        | 240      | 65.00                                        | hz.      | \$15.600 |                |
| Subtotal                 |                                 |                        |          |                                              |          |          | \$51,32        |
| ingineering : Decommiss  | aconing                         | 3                      |          |                                              | <u></u>  |          |                |
| _ ~                      | Administration and supervision  |                        | 50°      | 85.00                                        | M        | \$5,300  |                |
|                          | Design and development          |                        | 120      | 75.00                                        | hr i     | \$9,000  |                |
|                          | Drafting                        | 1                      | 95       | 65.00                                        | the l    | \$6,240  |                |
|                          | Monitorny and lesting           |                        | 0        | <u>65.00</u>                                 | hr       | 50       |                |
|                          | Project engineering             |                        | 200      | 65.00                                        | hr       | \$13,000 |                |
| Subtotal                 |                                 |                        |          |                                              | ł        | Year 3   | \$33,34        |
| License/Permit/Legal     | (10% engineering costs)         | G                      |          | 8,465.00                                     | 63       | \$8.465  | 58.48          |
| Start-up and Shake Dov   | en of Treatment System          | 3                      | <u> </u> | <u> </u>                                     | <u> </u> |          |                |
|                          | Materials                       |                        | 1        | 290.00                                       | 14       | \$200    |                |
|                          | Labor                           |                        | 43       | 65.00                                        | i 84     | \$2,800  |                |
|                          | Equipm and                      | 1                      | 1        | 200.00                                       | 1        | \$290    |                |
|                          | Lab Testing                     |                        | 4 4      | 500.00                                       | El       | \$2,000  |                |
| Subtozal                 |                                 |                        |          |                                              |          | <br>     | \$£ <b>0</b> ( |
| Čontrogency              | (15% cannai cossisi             | 0                      | 1 1      | 48,927.05                                    | LS       | \$48,927 | s 48, 51       |
|                          | Yes                             |                        | <u> </u> | <u>.                                    </u> |          | <u> </u> | \$108.7        |
| Total                    | Yee                             | r, 3                   |          |                                              | ŀ        |          | \$38,3         |

ea: each

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hr; hour

IC: indirect capital cost

1.S: tump sum

#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - Building 1168 - Alternative No. 5 Alternative 3 Plus Excavation and Engineered Pile Treatment (biopile or vapor extraction pile) of Contaminated Soil

#### Annual System Operation Cost Detail

|                        |                                                         | Quantity                                      | Rate      | Units    | Frequency     | Year(s) of AOC Excenditure | Totaliyear |
|------------------------|---------------------------------------------------------|-----------------------------------------------|-----------|----------|---------------|----------------------------|------------|
|                        |                                                         | 1                                             |           | í .      | Nyear         |                            | 1          |
| Iperating Labor Cost   | Itam 1: Groundwater monitoring                          | 17                                            | 55.00     | lhar 🛛   | ,             | 1 to 10                    | \$780      |
| Post-Construction!     | ham 2: SVE/AS system monitoring                         | 156                                           | 55.00     | 10       |               | 1 to 3                     | \$10,140   |
|                        |                                                         | 64                                            | 55.00     |          |               | 4 10 5                     | \$4,160    |
|                        | item 3: engricered pile system monitoring               | 1                                             | 400.00    |          | 1             | 1 to 10                    | \$400      |
|                        | hem 4: Training                                         | <u>+-                                    </u> |           |          |               | 1 to 10                    | \$1,180    |
| Subtotal               |                                                         |                                               |           |          |               | 4 ta 5                     | \$4,150    |
|                        |                                                         |                                               |           |          | 1             | 1 to 3                     | \$10,140   |
|                        |                                                         |                                               |           | <u></u>  | liyear        | <u> </u>                   | 1          |
| igenary Materials an   | Item 1: Groundwater monitoring acoual maintenance       | ļ ,                                           | 500.00    | is .     |               | 1 to 10                    | \$50       |
|                        |                                                         | 1                                             | 1,500,00  | i        | ŀ             | 1 to 3                     | \$1,50     |
|                        | ltem 2: SVE/air sparge system annual maintenance        | 15                                            |           |          |               | 4 10 5                     | \$1,04     |
|                        | ltem 3: engineered päe system maintainence              | 1 1                                           | 75.90     |          |               | 1 to 10                    | \$75       |
|                        | Item 4: Sampling field kit                              | <u>+</u> ··· '                                | 75.60     | 10-1     | <u> </u>      | 1 to 10                    | \$575      |
| Subtotal               |                                                         |                                               |           | ļ        |               | 4 to 5                     | \$1.04     |
|                        |                                                         |                                               |           |          |               | 1 to 3                     | \$1,500    |
|                        |                                                         | <u> </u>                                      | <u> </u>  | ÷ _      | 1.1           |                            |            |
| williary Materials an  |                                                         |                                               | l         | l        | 1)year        | 1                          |            |
|                        | Process Electricals                                     | Ð                                             |           | LS       | 1             | 1 to 3                     | \$14.20    |
|                        | Electricity (SVE/AS)                                    | 1                                             | 14,200.00 |          |               | 4195                       | \$2.00     |
|                        | Electricity (Engineered pile)                           | 1                                             | 2,000.00  | •        |               | 4193                       | *2,00      |
|                        | Water                                                   | 0                                             | 1         | 15       |               |                            | 1 5        |
|                        | Sewer                                                   | 0                                             |           | LS       |               | 1                          | 1          |
|                        | fue)                                                    | 1                                             | 200.00    | 115      |               | 1 15 10                    | \$20       |
| Subtotal               |                                                         |                                               |           |          |               | 1 ta 10                    | \$200      |
|                        |                                                         |                                               |           |          |               | 4105                       | \$2,000    |
|                        |                                                         | <u> </u>                                      | <u> </u>  | <u> </u> | <u> </u>      | <u>] 1 to 3</u>            | \$79,200   |
| Umposal of Residues    |                                                         | · ·                                           |           | ĺ.       | <u>Tiyear</u> | 1 to 1D                    | 150        |
|                        | Wash water, skulge, atc.                                | 1                                             | 500.00    | aus      |               | 1 to 10                    | 1 550      |
| Subtotal               |                                                         |                                               |           |          |               | , 10 10                    |            |
|                        |                                                         |                                               |           | ÷        | 11/vear       |                            | ī          |
| Purchased Services     | Item 1: Laboratory Fees (G.W. montoring)                | 4                                             | \$25.00   | (well    |               | 1 to 10                    | \$2,50     |
|                        | Itam 2: Engineer review! consultation (G.W. treatment)  | 2                                             | 55.00     | month    | •             | 1 to 10                    | \$13       |
|                        | Item 3: Engineer review/ consultation lengineered pile) | 15                                            |           | lis      |               | 4 ta 5                     | \$1,04     |
|                        | Item 4: Laboratory Fees (engineer ed pile)              | 13                                            |           | lea      | }             | 4 to 5                     | \$6,50     |
|                        | IGH 4. LAUGHLAT TEES BARGAGE CA PAG                     |                                               |           | +        |               | 1 10 10                    | \$2,53     |
| Subtotal               |                                                         | 1 I                                           | i i       |          |               | 4 to 5                     | \$7,54     |
|                        |                                                         |                                               | <u> </u>  | <u> </u> | <u>ļ</u>      |                            | <u></u>    |
| Other:                 |                                                         | •                                             | 1         | 1        | liyear        | 1 to 10                    | .          |
| Administrative costs   | not included in other line Rents                        | 1                                             |           | ន        |               |                            |            |
| innrance               |                                                         | ٤ (                                           |           | LS       |               |                            | 5          |
| Taxes, licensing, perm | nit renewal                                             | , c                                           | 4         | ٤S       |               |                            | 1 *        |
| Maintenance Reserve    | Fund                                                    |                                               | 1         | 1        | ł             |                            |            |
|                        | ts prorated for each year of implementation!            | 1                                             | 1,875.54  | LS .     | <u> </u>      |                            | \$1.87     |
| Şubrotal               |                                                         |                                               |           |          |               | 1 to 10                    | \$1,87     |
|                        |                                                         | T                                             |           | Ī        | 1             | 1 th 3                     | \$32.50    |
| Tatal Annual Opera     | ting Cost discludes 6W Monitoring)                      |                                               | ł         | 1        | I             | 4 to 5                     | \$21,70    |
|                        |                                                         | 1                                             |           | ł        |               | 5 to 10                    | \$6.96     |
|                        |                                                         |                                               | 1         | 1        | [             | \$ TO 10                   | +0.50      |
| 0                      | function Parties of Taxal ATV                           | i                                             | 1         | 1        | í             | 1 to 10                    | \$3,78     |
| Graundwater M          | faaitaring Partian of Total AOC                         |                                               |           |          | 1             |                            | 1          |

Number of years of implementation:

10

ADC: annual operating cost AS: air sparge hr: bour LS: tump staff SVE: soil vapor extraction GW: groundwater

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#### DRMO YARD SOURCE AREA BASELINE COST SUMMARY

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#### Fort Wainwright OU-2 Feasibility Study DRMO Yard Baseline Estimate Summary

| Component                       | Remedial Action Alternative |               |               |               |               |  |  |  |
|---------------------------------|-----------------------------|---------------|---------------|---------------|---------------|--|--|--|
|                                 | Alternative 1               | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |  |  |  |
| Present Worth of GW Monitoring  | \$0                         | \$146,000     | \$89,000      | \$89.000      | \$132.000     |  |  |  |
| Present Worth of Capital Costs" | \$0                         | \$34,000      | \$1,426,000   | \$1,498,000   | \$2,062,000   |  |  |  |
| Present Worth of AOC            | \$0                         | \$0           | \$680,000     | \$682,000     | \$698.000     |  |  |  |
| Total Cost to implement         | \$0                         | \$180,000     | \$2,195.000   | \$2,269,000   | \$2.892.000   |  |  |  |

\* Includes Direct and Indirect Capital Costs.

GW: grounowater

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ADC: annual operating cost

#### Fort Wainwright DU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 1 No Action

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| PLA<br>PLA<br>PLA<br>PLA<br>PLA |                                                                                             | 5,051 002<br>1,293,001<br>522,47<br>2,730<br>10,344 000<br>4,344 75<br>10,344 000<br>4,344 75<br>10,344 000<br>4,344 75<br>10,344 000<br>4,344 75<br>10,344 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,545 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555 75<br>10,555                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 94.<br>RA                       |                                                                                             | 646 50<br>50 15<br>10.000 00<br>2.200 00<br>10.000 00<br>2.200 00<br>12.275<br>646 50<br>14.775<br>10.000,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,00<br>1.275,000<br>1.275,000<br>1.275,000<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 94.<br>RA                       |                                                                                             | 350 15<br>15.000 00<br>12.000 00<br>12.075<br>645 50<br>15.000 00<br>15.000 00<br>15.000 00<br>15.000 00<br>15.000 00<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.0000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.000<br>1.000.0000<br>1.0000.000<br>1.000000<br>1.000.000<br>1.000.000<br>1.000.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 94.<br>RA                       |                                                                                             | 150.000<br>10.000 000<br>2200 000<br>10.000 000<br>10.000 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>100 000<br>1000<br>100 000<br>100 0000<br>100 0000<br>100 000<br>100 0000<br>100 0000<br>100 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 94.<br>RA                       |                                                                                             | 10.000 000<br>2.200 000<br>3.200 0000<br>3.200 0000<br>3.200 0000<br>3.200 0000<br>3.200 0000<br>3.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 94.<br>RA                       |                                                                                             | 2.200 000<br>120 75<br>545 50<br>150.00 L<br>845 50<br>150.00 L<br>847 55<br>10.000.00 1<br>5.008.00 0<br>9.051.00 0<br>1.293.00 0<br>2.132.65<br>2.2132.65<br>2.2132.65<br>2.2132.65<br>2.2132.65<br>2.2132.65<br>2.2755<br>5.555<br>5.555.000<br>2.555<br>5.555.000<br>2.555<br>5.555<br>5.555<br>0.000<br>2.555<br>5.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>5.555<br>0.000<br>2.555<br>0.000<br>2.555<br>0.000<br>2.555<br>0.000<br>2.555<br>0.000<br>2.555<br>0.000<br>2.555<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.00000<br>0.00000<br>0.00000                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 94.<br>RA                       |                                                                                             | 120 75<br>645 50<br>150.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>157.00 L<br>127.00 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RA                              |                                                                                             | 645 50<br>350,15<br>159,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,00<br>1,29,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RA                              |                                                                                             | 150.15<br>150.00 L<br>1.4735<br>10.000.00 L<br>5.060.00 L<br>9.051.00 L<br>1.293.00 L<br>1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.1.2.5 4 1.1.1.1.2.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RA                              |                                                                                             | 150.00 L<br>8.77 S<br>10.000.00 L<br>5.000.00 L<br>1.293.00 L<br>2.293.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.232.00 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.252 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.552 L<br>2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.1.2.5.4.1.1.1.1.0.0.0.1.1.2.2.2.2.2.2.2.2.2.2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RA                              |                                                                                             | 1, 47 5<br>10,000,00 1<br>5,000,00 0<br>1,293,000<br>7,293,000<br>7,293,000<br>7,293,000<br>7,213,45<br>5,051,000<br>1,293,000<br>5,213,45<br>7,710<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,344,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,345,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,000<br>10,355,0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RA                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 10.000.00 1<br>5.000.00 4<br>9.051.00 4<br>7.1293.00 4<br>7.1293.00 4<br>7.1293.00 4<br>7.1293.00 4<br>7.1293.00 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123.45 4<br>7.123                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RA                              |                                                                                             | 5,008,001<br>9,051,00<br>1,293,00<br>2,112,45<br>3,051,00<br>5,233,47<br>2,731,45<br>3,051,00<br>5,233,47<br>2,731,45<br>3,051,00<br>2,334,70<br>4,344,75<br>1,273,00<br>1,034,00<br>4,344,75<br>1,273,00<br>2,078,53<br>4,000,00<br>5,500,00<br>5,500,00<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2,576<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RA                              |                                                                                             | 9.051.00<br>1.293.00<br>2.133.45<br>5.213.45<br>5.213.45<br>5.23.45<br>1.133.00<br>5.23.47<br>7.730<br>1.730.0<br>5.247<br>7.730<br>1.730.0<br>5.444.75<br>1.730.0<br>5.444.75<br>1.730.0<br>1.0344.00<br>5.444.75<br>1.730.0<br>1.0344.00<br>5.444.75<br>1.730.0<br>1.0344.00<br>5.444.75<br>1.0344.00<br>5.257<br>5.550<br>5.500.00<br>2.575<br>5.500.00<br>2.575<br>5.500.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.00<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.000<br>5.000.0000<br>5.000.0000<br>5.00000<br>5.00000<br>5.000000<br>5.000000<br>5.0000000<br>5.0000000<br>5.0000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| RA I                            |                                                                                             | 2.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                 | K4<br>NA<br>NA<br>K4                                                                        | K4         D           MA         0           PCA         0           PCA         0           SEA         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA         O         2.55           NA         0         220 00           NA         0         2.55           0         5.25         0           0         5.25         0           0         7.99         0           XA         0         22000           0         7.99         0           XA         0         22000           0         7.93         110.001           S         110.001         5           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25         0           0         5.25 |

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 1 No Action

#### Indirect Capital Cost Detail

|                          | item                            | Yei             | r of IC Expenditors | Quantity | Rate          | Units | East | _       |
|--------------------------|---------------------------------|-----------------|---------------------|----------|---------------|-------|------|---------|
| ngineering: Design to kr | pjenestation                    | <b>-</b>        | NA                  |          |               |       |      |         |
|                          | Administration and supervision  | ľ               |                     | 0        | 85.00         | hr    | 10   |         |
|                          | Besign and development          |                 |                     | 0        | 75.00         | hr i  | \$0  |         |
|                          | Bratting                        |                 |                     | 0        | 65.00         |       | \$9  |         |
|                          | Monitoring and testing (Year O) |                 |                     | Û        | 65.00         | hr i  | \$D  |         |
|                          | Project engineering             |                 |                     | 0        | 55.00         | hr    | \$0  |         |
| Subtotal                 |                                 |                 |                     |          |               |       |      | 50      |
| ingineering : Decommis:  | 100002g                         | <del>_:  </del> | NA                  |          |               |       |      |         |
|                          | Administration and supervision  | 1               |                     | 6        | 85.00         | 1 '   | \$D  |         |
|                          | Besign and development          |                 |                     | ) 0      | 75. <b>00</b> | · ·   | \$D  |         |
|                          | Dratting                        | 1               |                     | 0        | 65. <b>00</b> | 4     | \$D  |         |
|                          | Monitoring and testing          |                 |                     | 0        | 65.00         |       | \$0  |         |
|                          | Project engineering             |                 |                     | 0        | 65.00         | hr.   | \$0  |         |
| Subtotal                 |                                 |                 |                     |          | -             | 1     |      | 50      |
| License.PermetiLegat     | (18% engineering costs)         |                 | NA                  | 0        | 0.00          | 64    | \$0  | \$0     |
| Start-up and Shake Dav   | en of Tiestment System          | <u> </u>        | RA                  | Į        |               | 1     |      |         |
|                          | Materials                       |                 |                     | 0        | 1,000.00      | ta    | \$0  |         |
|                          | Labor                           | -               |                     | 0        |               |       | \$0  |         |
|                          | Equipment                       |                 |                     | } 0      |               | í     | \$0  |         |
|                          | Lab Testing                     |                 |                     | 0        | 500.00        | 1 62  | 10   |         |
| Subtotal                 |                                 |                 |                     | 1        |               |       | ļ    | \$6     |
| Contingency              | (15% capital costs)             |                 | NA                  |          | 0.00          | LS    | \$D  | \$1     |
| Total Annual Operati     |                                 | Year            | NA                  |          |               |       |      | <br>\$1 |
| total volge obclam       | 18 2021                         | Year            | ¥.                  | 1        |               | ĺ     | 1    | \$      |

ea: each

 $e^{\alpha}$   $\propto$ 

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iv: hour

IC: indirect capital cost

NA: not applicable for this attemative

\$5083

#### Fort Wainwright DU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No.1 No Action

#### Annual System Operation Cost Detail

|                             | lien                                              | Quantity     | Rate     | Garts        | Frequency | Yeartsi of ADC Expenditure | Totalivear   |
|-----------------------------|---------------------------------------------------|--------------|----------|--------------|-----------|----------------------------|--------------|
| Operating Labor Cost        |                                                   | <u> </u>     | ]        |              | Ţ         | NA                         |              |
| Past Construction)          | item is Groundwater monitoring                    | 1 0          | 1        | he           |           |                            | 1            |
|                             | Rem 2: Training                                   |              |          | 2.2          |           |                            | <u> </u>     |
| Subtotal                    |                                                   |              |          |              |           |                            | 5.           |
| Routine Maintenance Ma      | terals and Labor Cost                             | +            | <u> </u> | +=-          |           | NA                         | <del> </del> |
|                             | item is Groundwater monitoring annual maintenance | 6            | 1        | 15           | 1         |                            | 1 1          |
|                             | liem 2: SVEjair sparge system annual maintenance  | 1 0          | Í        | LS .         | 1 1       |                            | 1 1          |
|                             | Item 3: Samaling field kit                        | Į            | }        | 624          |           |                            |              |
| Subtotal                    |                                                   | 1            |          |              |           |                            | 1            |
| Auxiliary Materials and E   |                                                   | <del></del>  | <u> </u> | +=           |           | NA                         | <del> </del> |
|                             | Process Chemicals                                 | 0            |          | LS.          |           |                            |              |
|                             | Dectricity (Phase 3)                              | 1 0          |          | នេ           | {         |                            | 1 1          |
|                             | Electricity (Phase 2)                             |              |          | <u>کا</u>    | į l       |                            | 1 1          |
|                             | Bald                                              | 0            | l        | LS           | { }       |                            | 1 1          |
|                             | Sewer                                             | 1 0          | 1        | ى            | {         |                            | 1 1          |
|                             | fund                                              | 0            | ł        | ĽS           | 1 1       |                            |              |
| Subtotel                    |                                                   |              |          |              |           |                            | t            |
|                             |                                                   |              |          |              | . I       |                            | 5            |
|                             |                                                   |              |          | 1            | ]         |                            | 5,           |
| Disposal of Residues        |                                                   |              |          | <u></u>      |           | NA NA                      | 1            |
|                             | Wash water, sludge, ect.                          | ۵ ا          | }        | LS .         | }}        |                            | 5            |
| Subtotal                    | ······································            | 1            |          |              |           |                            | 1            |
| Putchased Services          |                                                   | +            |          | 1            |           | NA                         | <u></u>      |
| Professional Servic         | E .                                               | 1            |          | ł            |           |                            |              |
|                             | Item 1: Laboratory Fees                           | 0            |          | لا           |           |                            | 1 1          |
|                             | item 2: Engineer reviewi consultation             | 1 0          |          | lus –        | ]         |                            | 1 1          |
|                             | lten 3:                                           | 0            |          | LS.          | ]         |                            | \$           |
| Şubiqtəl                    |                                                   |              |          | -            |           |                            | \$1          |
| 0ths:                       |                                                   | <del>†</del> |          | <u>+-</u>    | [         | NA NA                      | <u> </u>     |
| Administrative costs not    | included in other line stems                      | } 0          |          | 23           | l         |                            | \$ \$        |
| nsurance                    |                                                   | 1            |          | ្រាខ         | ļ į       |                            | 1 1          |
| Faxes, licensing, permit re |                                                   | 1            |          | : :s         |           |                            | ļ +          |
| Maintenance Reserve Fun     |                                                   | 1            |          | 1            | } }       |                            | ł            |
|                             | rorated for each year of indiamentation           | 11           |          | <u>:1.\$</u> | <u> </u>  |                            | \$           |
| Subtotal                    |                                                   |              |          |              |           |                            | 5.           |
| Total Annual Operating      | Cost                                              |              |          | }            |           |                            |              |
|                             |                                                   |              |          | ļ            |           |                            |              |

Number of years of implementation:

Ð

ABC: annual operating cost frictiour LS: formp sum NA: not applicable for this alternative SVE: soil vapor extraction .

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## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 2 Institutional Controls and Natural Attenuation

Sente Capital Cart Detail

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## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 2 Institutional Controls and Natural Attenuation

#### Indirect Capital Cost Detail

|                         | Itam                           | Year of IC Expenditure | Quantity   | Rate          | Units    |          | Cost     |
|-------------------------|--------------------------------|------------------------|------------|---------------|----------|----------|----------|
| ngineering: Design to 🖛 | 215772312101                   | a                      |            |               |          |          |          |
| -                       | Administration and supervision | [                      | 40         | 85.00         | ស        | \$3,400  |          |
|                         | Casign and development         |                        | 80         | 75.90         | ъ        | \$6.000  |          |
|                         | Drafting                       |                        | 32         | 65.90         | hr ,     | \$2,080  | -        |
|                         | Monitoring and testing (Year O |                        | 0          | <b>\$5.00</b> | hr.      | ¢0       |          |
|                         | Project angineering            |                        | Z4         | 55.00         | hr -     | \$1,560  |          |
| Subtotal                |                                |                        |            |               |          |          | \$13.040 |
| пранений : Оссолтах     | nong                           | 30                     |            |               |          |          |          |
|                         | Administration and supervision |                        | 20         |               | 1        | \$1.790  |          |
|                         | Design and development         | -                      | 40         | 75.00         | hr       | \$3,000  |          |
|                         | Statling                       |                        | - 8        | •             | 1        | \$520    |          |
|                         | Monitoring and testing         |                        | 0          | 65.00         |          | \$0      |          |
|                         | Project engineering            | Į                      | 40         | 65.00         | hy       | \$2,600  |          |
| Subtotal                |                                |                        |            |               | ļ        |          | \$7,820  |
| LicenseiPermitiLegal    | .13% engineering costs)        | G                      | 1          | 2,086.00      | PI       | \$2.085  | \$2,086  |
| Start-up and Shake Dow  | n of Treatment System          | NA NA                  | 1          |               |          |          |          |
|                         | Huran                          |                        | 0          | 1,000.00      | 22       | \$0      |          |
|                         | Laber                          |                        | 0          | 1             | 1        | 10       |          |
|                         | Equipment                      |                        | 0          | 1,000.00      | 22       | \$0      |          |
|                         | Lab Testing                    | <u> </u>               | 0          | \$00.00       | ea       | \$0      |          |
| Subteral                |                                |                        |            |               |          |          | \$0      |
| Cansingency             | 125% capital costs)            | 0                      | 1          | 5,349.90      | 15       | \$5,350  | 15,350   |
|                         |                                | <u></u>                | <u>–</u> – | 1             | Ì        |          |          |
| Total                   | Yea                            |                        |            |               | }        | 1        | \$Z0,47  |
|                         | Yea                            | r <u>30</u>            | <u> </u>   | <u> </u>      | <u> </u> | <u> </u> | \$7,820  |

ea: each

<sup>-</sup>...

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hr: hour

IC: indirect capital cost

t.S: lump sum

NA: not applicable for this atternative

## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No.2 Institutional Controls and Natural Attenuation

## Annual System Operation Cost Detail

|                         | lten                             |                          | Quantity       | Rate                                         | Units       | Frequency   | Yearisi of AOC Expenditure | Totallyzar |
|-------------------------|----------------------------------|--------------------------|----------------|----------------------------------------------|-------------|-------------|----------------------------|------------|
| perating Labor Cost     |                                  |                          |                |                                              |             | lifteat     |                            | 43.000     |
| Post-Constructions      | Rem 1: Groundwater monit         | ocine                    | 40             | S5.00                                        | M.          | l           | 1 to 38                    | \$2,600    |
| 10514 015 000 1000      | Item 2: Training                 |                          | 1 1            | 200.00                                       | LS _        | ·           | 1 to 30                    | \$200      |
| ubtotal                 | Ran Z. Generg                    |                          | i — –          |                                              |             |             |                            | \$2,800    |
| JUG 2014                |                                  |                          |                | <u> </u>                                     | L           |             | <br>                       |            |
| loutine Mantonance M    | aterials and Labor Cost          |                          | <u> </u>       |                                              |             | 1/Year      | 1 to 38                    | \$1,000    |
|                         | Item I: Groundwater mont         | oring annual maintenance | 1              | 1,000.00                                     |             |             | 1 10 30                    |            |
|                         | item 2: SVElair sparge well      |                          | } o            |                                              | LS .        | 1           |                            | \$0        |
|                         | Item 3: Samoling field kit       |                          | Z              | 75.90                                        | dav         | <u> </u>    | 1 to 30                    | \$150      |
| Subtotal                |                                  |                          |                |                                              | 1           |             |                            | \$1,150    |
|                         |                                  |                          | <u> </u>       |                                              | <u> </u>    | T           | NA NA                      | +          |
| Auxiliary Materials and |                                  |                          |                |                                              | LS          |             |                            | .\$0       |
|                         | Process Chemicals                |                          | 0              | í                                            | 15          |             |                            | 1 10       |
|                         | Electricity                      |                          | 0              |                                              | នេ<br>នេ    |             |                            | 10         |
|                         | Water                            |                          | 0              |                                              | 4.          |             |                            | \$0        |
|                         | Sever                            |                          | 0              | 1                                            | is .        | ł           | 1                          | 30         |
|                         | Faei                             |                          | <u> </u>       | <u>                                     </u> | LS_         |             |                            | 1 30       |
| Subtotal                |                                  |                          |                | 1                                            | Ì           |             |                            |            |
| Disposal of Residues    |                                  |                          | <del>;</del> = | <del>1 –</del>                               | † T         | 1,Year      | 1                          | 1          |
| aradazer al usanere     | Wash water, sludge, ect.         |                          |                | 580.00                                       | <u>ils</u>  | <u> </u>    | 1 to 30                    | \$500      |
| Subtotal                |                                  |                          |                | Ţ                                            |             | 1           |                            | \$500      |
|                         |                                  |                          | ╪╼──╸          | <u></u>                                      | <u>†</u>    | 1<br>1/Year |                            | 1          |
| Purchased Services      | D Is a single Demission          |                          | -              | 1                                            |             |             |                            |            |
|                         | Professional Services            | item 1acoratory Fees     | 1              | 825.00                                       | )<br>wei    | 1           | 1 to 30                    | \$5.000    |
|                         |                                  | iten 2:                  |                |                                              | ιs          | ļ           |                            | \$1        |
|                         |                                  | iten 3:                  | 1 i            |                                              | LS          | 1           |                            | 5          |
| Subtotal                |                                  |                          |                |                                              |             | 1           |                            | \$5,000    |
|                         |                                  |                          | <u> </u>       | <u> </u>                                     | <u> </u>    | 1           | <u></u>                    | 1          |
| Other:                  |                                  |                          | [ .            | J                                            |             | lifear      | 1                          | \$         |
| Administrative costs n  | at included in other line items. |                          |                |                                              | LS .        | 1           |                            | 5          |
| Insurance               |                                  |                          | 1              | 1                                            | DILS .      | 1           | Į                          | 5          |
| Taxes, licensing, permi | t renewał                        |                          |                | 0.04                                         | ្រា         | 1           |                            |            |
| Maintenance Reserve i   | und                              |                          |                | 1                                            | 1.          |             | 120                        | \$6        |
| 15% of capital costs or | orated for each year of employ   | nentationi               |                | 68.3                                         | <u>sirz</u> |             | 1 to 30                    | 35         |
| Subtotal                |                                  |                          | }              |                                              |             |             | <u> </u>                   |            |
|                         |                                  |                          | ╧══            | <u>†</u>                                     | †           |             |                            |            |
|                         | ing Cost                         |                          |                |                                              | 1           | ł           | 1 to 30                    | \$3,51     |

Number of years of implementation:

30

ABD: annual operating COST his hour LS: lump such NA: not applicable for this alternative SVE: soil vapor extraction

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1995 **-**1997 **-**1997 **-**

#### Fort Wainweight OU-2 Fassibility Study Saseline Cost Estimate - DRMD - Alternative No. 3 Soil Yacor Extraction, Groundwater Air Sparging and Monitoring

Breet Cound Cost - Dated

| ी ग<br>24<br>74<br>74<br>74<br>74<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75 | free<br>I my depine ISO (and, 1 ) (.4" demonstrat queez you, proce webs)<br>repays to the topon (40) of them, so repay for youch wed, and, handsills<br>and web (and you you wed).<br>The to balance (20) man pay to weak well, well, pays any appendix and have, page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type of CC Expendition                        | 62<br>62<br>57 | 1,486.95 1<br>529.25 | •        | × 12,110,00<br>× 7 × 55 50 |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------------------|----------|----------------------------|
| ी ग<br>24<br>74<br>74<br>74<br>74<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75 | retjeng to han imperie 650°. Z viewe metropa har yezh wed, wel, hechilik<br>adale yezh const van per well.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ť                                             | 62             |                      |          | 17 (55 58                  |
| کل<br>۲۹<br>۲۹<br>۲۹<br>۲۹<br>۲۹<br>۲۹<br>۲۰<br>۲۰                                                              | and the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set |                                               | 57             |                      |          |                            |
| 29<br>Samuel Webs<br>Dismonel Webs<br>Tim                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 1 14           | \$48,50 į            | •        | 148-3853-39                |
| र स<br>विक<br>र दुव्यान्त्रक संबद्ध<br>गा                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | \$7            | \$50.35              |          | ×52,70¥.30                 |
| د.<br>در جمعی (۲۹۵<br>۲۰۰۰ ۲۰۰۰ ۲۰۰۰                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 62             | 150 001              |          | 19 200 00                  |
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| 1                                                                                                               | it minister ife ter, 4" paterer fell som eperiate setter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ,                                             | 21<br>2)       | 2,200.00             |          | 12555                      |
| 14                                                                                                              | ming in far imper (50% 2° imm erwingt im mich mill, will bantfill)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | - 21           | E46.50               |          | 113.576.50                 |
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|                                                                                                                 | ng in indene 56° are op in this out, we say some subject and but with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               | 71             | 150.00               |          | F3, 158 ND                 |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                             | 25,600         | 147                  |          | :211,750 \$0               |
|                                                                                                                 | nini arima anin' 3 aminin' mas-aradisi mi print pang kan sufis<br>Nan kanadim wa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               | <u> </u>       | 10,000.00            |          | 10 00                      |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 10             | 5,000.001            |          | 152 000 50                 |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 10             | 9,051.00             |          | 199,518 QC<br>+12,539,00   |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 101<br>10      | 1,253,00             |          | \$12,130,00                |
| 14                                                                                                              | i in an an an an an an an an an an an an an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | F                                             | 10             | 2 133.45             |          | 171.334.56                 |
| 1                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 10             | 1,051.00             |          | 159.510.00                 |
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|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                             | 19             | 523.67               | 1        | 15,234 75                  |
|                                                                                                                 | nt İndelia<br>ayı handar sarah kurşî hiti hati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                             | 10             | 27.80                |          | 1276.04                    |
|                                                                                                                 | ge speak tert get an ear eas<br>inner: Contribu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 101            | 10,344.00            |          | 1103,440,80<br>143,447,50  |
| -                                                                                                               | a francessen igregatet 1. Seen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | l                                             | 10             | 4,544.75             |          | 13,875,90                  |
|                                                                                                                 | دالعز وغيره                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                             | 10             | 1,009.00             |          | 110,000 00                 |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                             | 10             | 2.474.93             |          | 128.768.30                 |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 10             | 1,000.00             | -        | 110,000 00                 |
|                                                                                                                 | ictual fait of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | 1 10           | 200.42               | -        | 12,004 25                  |
|                                                                                                                 | delang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - W                                           | •              | 96.90                |          | 34 <b>0</b> 4              |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                             |                | 2.55<br>5.25         |          | 18 SC<br>18 SC             |
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|                                                                                                                 | affering and supply any supplying statements and a supply 200 Cf as supplying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                             |                | 5,000.00             |          | 10 <b>0</b>                |
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|                                                                                                                 | نداخته با بروجه منه به ۲۸ زمانه مدین با بروجها با است.<br>بروی از استان از است آن از قریمیه با ۲۰۰۰ها بروی ۲۰۰ (۲۰۰۰ این ۲۰۰۰ این ۲۰۰۰ (۲۰۰۰ این ۲۰۰۰ (۲۰۰۰ این ۲۰۰۰ (۲۰                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                | 2.35                 | <b>n</b> | 120                        |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | **                                            | 1 0            | 1.19                 | ¥.       | 10.0                       |
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|                                                                                                                 | L Congrege (gr-plank (gr-p)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                             | 0              | 2.55                 | 1 1      | 100                        |
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| · ·                                                                                                             | afernany sei same any an artanen wat, 1 same 200 GY as any at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                | 2.55                 |          |                            |
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|                                                                                                                 | antesian på Thimmi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                | 10.009.00            | 13       | (80                        |
| l <sup>1</sup>                                                                                                  | factualities metang<br>informany ani pungto menyeco ne cinstant anno, ) subges/208 (25 ascensint)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               | п              | 300.00               | ļe       | 19.0                       |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *1                                            | 0              | 2 55                 |          | 100                        |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 0              | 22.33                | 4        | 1.01<br>1.01               |
|                                                                                                                 | itige bestead all.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | 0              | 10,344,00            |          | 101                        |
| t i                                                                                                             | frameliäre tarten:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | }                                             | 3              | 300.00               |          | 500                        |
|                                                                                                                 | andreament and another matchese suspension mesh, it annulo 700 GY according                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               | 1 3            | 2.55                 | _        | 0.04                       |
|                                                                                                                 | acertine as diam vessila:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               | 0              | 1.70                 | er 🛛     | 191                        |
| •                                                                                                               | المعتمرة في خلي من الم                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                             | Į s            | 5.000.00             |          | 101                        |
|                                                                                                                 | Cartering the Longe supplies a company state, 2 sprain 200 CY excention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | 1 0            | 300 50               | 1        | 190                        |
| Managerers and testationers 4                                                                                   | feit an subspace wird der beitigter ann an trate, die Barmerter Press, paper tal-stationen weren.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               | 1              | 2,550,00             | <u> </u> | 15 1.00                    |
|                                                                                                                 | Surface exceptions and represents to some to marks of 19 lives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 44                                            |                | 27.00                | <u> </u> | 131                        |
| Fercing and Sup Posters                                                                                         | - Text Cale bay with high statemy same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>                                      | +              | 16 47                | -        |                            |
|                                                                                                                 | Programme für annang systemistration and annang sich is annanger at weiters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u> </u>                                      |                | 220.00               |          | 1,543.0                    |
| Decomposition of property little                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 32             |                      |          | 12 5281                    |
|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | hà là                                         |                | 1                    |          | 101                        |
| Companie Alexander Serielle                                                                                     | Comparison on party will be a set of the set of the set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4                                             | 0              |                      |          | LD (                       |
| Furt Wasternijk Landfill                                                                                        | تعتمليه فيتوجونها الألسي عنوميني المراجعة ومترجعة ومترجعة ومترجعة<br>المتحدثة فيتوجونها المبري                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                             | •              |                      |          | 101                        |
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| Recommendation of Last of Conversion Andrea                                                                     | Red Instrument, St. at Starger redstat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15                                            | 611            | 220.00               |          | 524,240)                   |
| ·                                                                                                               | tyraanse jarafat pras serve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | t                                             | 5,000          |                      |          | 110 000                    |
|                                                                                                                 | Undergraphi paper research, where any fill, band and depends of fill bandfill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                             | 1              |                      |          | 10:                        |
|                                                                                                                 | Engineeral phytosilary decisioneras and proceeding tracked and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ]                                             | - C            | 5.29                 | i cr     | 61 I                       |
|                                                                                                                 | ining support ini to prove ou<br>Typ had decommendation of support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ]                                             | 30             |                      |          | 17,000                     |
|                                                                                                                 | iye name deşemenindi di iyekine<br>Se name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               | 1 '            | 10,000.00            |          | 11000                      |
|                                                                                                                 | Canforming and summer survives- statum units (2 statemen/200 C7 statum) and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I                                             | 15             | \$20.00              | <u>"</u> | r5.200                     |
| Tetale                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | 1              | ]                    | Í        | \$1.428.532.<br>\$75.546   |
|                                                                                                                 | YaYA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | uri <u>15</u>                                 | 1              | <u> </u>             | 1_       |                            |

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## Fort Wainwright DU-2 Feasibility Study Baseline Cost Estimate - DRMD - Alternative No. 3 Soil Vapor Extraction, Groundwater Air Sparging and Monitoring

#### Indirect Capital Cost Detail

| Instruction         15         60         85.00         hr         95.100           Design and development         150         75.00         hr         \$12,000           Drahma         40         65.00         hr         \$12,000           Montpring and testing         0         65.00         hr         \$12,000           Montpring and testing         0         65.00         hr         \$10           Project empineering         138         85.00         hr         \$8,370           Subtrace/         138         95.00         hr         \$12,767           Subtrace/         1005.00         ea         \$13,767         \$12,767           Subtrace/         240         65.00         hr         \$15,600           Laber         240         240         500.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         | े हेरा <u></u>                          |                 | Year of 10 Expenditure | Oventity | Rate           | Units |           | Cest            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------|-----------------|------------------------|----------|----------------|-------|-----------|-----------------|
| Date         Design and development         P40         75.00         Ir         148,000           Disting         Methoding and testing (fair 0)         0         65.00         Ir         40           Project engineering         280         65.00         Ir         40           Project engineering         280         65.00         Ir         40           Project engineering         15         5         182.200         51.00           Subtract Market Spread         15         5         192.00         51.00         192.00           Subtract Market Spread         15         5         5         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.00         192.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Engreening: Design to k | npicoen125100                           | - [             | 0                      |          |                |       | _         |                 |
| Display and version with<br>Display and testing (Yari D)         240,<br>55.00 hr         55.00 hr         \$15,600           Project engineering         220,<br>55.00 hr         55.00 hr         \$18,200           Successed         15         55.00 hr         \$18,200           Successed         15         55.00 hr         \$18,200           Successed         15         60,<br>55.00 hr         \$18,200           Successed         15         60,<br>55.00 hr         \$18,200           Successed Permitikegial         15         60,<br>55.00 hr         \$12,000           Project engineering         150,<br>55.00 hr         \$12,000         \$2,600           Mananterings and testing         150,<br>55.00 hr         \$12,000         \$2,600           Manantering and testing         0,<br>55.00 hr         \$12,000         \$2,600           Manantering and testing         0,<br>55.00 hr         \$12,000         \$2,600           Successe Permitikegial         100 k engineering tostisi         0         1         13,767, \$12,71           Successe Permitikegial         100 k engineering tostisi         0         1         13,767, \$12,71           East og and Shake Down of Treatment System         0         6         1,000,00         \$4,6000           Successe Permitikegia <t< td=""><td></td><td>Administration and supervision</td><td></td><td></td><td>320</td><td>85.00</td><td>hr 🛛</td><td>\$27,200</td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | Administration and supervision          |                 |                        | 320      | 85.00          | hr 🛛  | \$27,200  |                 |
| Durating<br>Maintening and testing (Year 0)         0         65.00         hr         40           Project engineering         283         55.00         hr         182.000           Successer         15         55.00         hr         182.000           Successer         15         60         55.00         hr         182.000           Successer         15         60         55.00         hr         15.100           Successer         160         75.00         hr         112.000         10.000           Design and development         160         75.00         hr         112.000         10.000         10.000         10.000         10.000         10.000         10.000         10.000         10.000         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767         112.767 <t< td=""><td></td><td>Design and development</td><td>ł</td><td></td><td>640</td><td>75.00</td><td>hr .</td><td>\$48,000</td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         | Design and development                  | ł               |                        | 640      | 75.00          | hr .  | \$48,000  |                 |
| Project mylineung (12) '0'         280         5000         rr         118.200           Suttated         15         5         108.00         118.200         118.200           Suttated         15         50         107.200         118.200         118.200           Suttated         15         50         107.200         118.200         118.200           Suttated         150         500         107.200         118.200         118.200           Design and development         150         75.00         117.200         118.200           Drying         40         65.00         12.200         12.200           Monotoring and testing         138         65.00         12.200         12.200           Suttate         100         138         65.00         12.200         10           Project enpriseting         138         65.00         12.200         12.200           Suttate         100         1         13.767         12.200 </td <td></td> <td>Bratting</td> <td>ļ</td> <td>i</td> <td>243</td> <td>85.00</td> <td>λr</td> <td>\$15,600</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | Bratting                                | ļ               | i                      | 243      | 85.00          | λr    | \$15,600  |                 |
| Tright Baylseeby         15         15         17000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         | Monitoring and testing (Year O)         |                 |                        | 0        | 65.00          | hr    | \$0       |                 |
| Instruction     15     60     85.00     hr     95.100       Design and development     150     75.00     hr     912,000       Dratting     40     65.00     hr     912,000       Montpring and testing     0     65.00     hr     92,000       Project enpineering     138     65.00     hr     92,800       Subtrate/     138     65.00     hr     92,870       Subtrate/     138     65.00     hr     92,870       Subtrate/     138     65.00     hr     98,970       Subtrate/     138     65.00     hr     98,970       Subtrate/     138     65.00     hr     98,970       Subtrate/     138     95.00     hr     98,970       Subtrate/     138     95.00     hr     98,970       Subtrate/     138     137,67     112,767     112,767       Subtrate/     0     1     13,767     112,767       Subtrate/     0     1     13,767     112,767       Subtrate/     240     65.00     hr     15,800       Laber     240     65.00     hr     15,800       Laber     240     65.00,00     ra     120,000 <t< td=""><td></td><td>Project engineering</td><td>}</td><td></td><td>280</td><td>-65.<b>00</b></td><td>ìr</td><td>\$18,200</td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         | Project engineering                     | }               |                        | 280      | -65. <b>00</b> | ìr    | \$18,200  |                 |
| Administration         60         55.00         iv         150         75.60         iv         150         75.60         iv         12,000           Drating         40         65.00         iv         12,000         iv         12,000         iv         12,000         iv         12,000         iv         12,000         iv         12,000         iv         10         iv         122,600         iv         122,600         iv<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Suttatat                |                                         | Ī               |                        |          |                |       |           | \$109.00        |
| Administration and development         150         75.00         hr         \$12,000           Drating         40         65.00         hr         \$2,600           Monitoring and testing         0         65.00         hr         \$10           Project engineering         138         85.00         hr         \$10           Subtrate         138         85.00         hr         \$10           Subtrate         0         13,767.00         ea         \$13,767         \$12,260           Subtrate         0         1         13,767.00         ea         \$13,767         \$12,260           Subtrate         0         1         13,767.00         ea         \$113,767         \$12,70           Subtrate         0         1         13,767.00         ea         \$10,000         ea         \$6,000           Laber         Laber         240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Engineering : Decommis  | ante ante ante ante ante ante ante ante |                 | 15                     |          |                |       |           |                 |
| Use of the detection intil         40         65:00         Mr         \$2,600           Montroring and testing         0         65:00         hr         \$2,600           Montroring and testing         138         65:00         hr         \$2,600           Project engineering         138         65:00         hr         \$22,600           Subtrata/         138         65:00         hr         \$22,600           Lateral         0         1         13,767.00         ea         \$13,767         \$12,77           Lateral         0         1         13,767.00         ea         \$13,767         \$12,77           Lateral         0         1         13,767.00         ea         \$13,767         \$12,76           Lateral         0         1         13,767.00         ea         \$13,767         \$12,76           Lateral         240         65:00         hr         \$15,600         ea         \$46,000           Lateral         240         65:00         hr         \$15,600         ea         \$46,000           Lateral         1,000,00         ea         \$6,000         ea         \$24,000         \$24,000           Surgrader         0         1 </td <td></td> <td>Administration and suppression</td> <td>ļ</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         | Administration and suppression          | ļ               |                        |          |                | 1     |           |                 |
| Disting         0         65.00         hr         \$0           Project engineering         138         65.00         hr         \$28.970           Sactata/         138         65.00         hr         \$28.970           Sactata/         0         13.767.00         #4         \$13.767         \$728.65           Sactata/         0         1         13.767.00         #4         \$15.760         \$728.65           Sactata/         0         1         1.000.00         #4         \$6.000         \$6           Laber         240         65.00         hr<>15.600         \$60.000         \$6         \$60.000         \$6           Sactata/         240         500.00         \$6         \$20.000         \$6         \$60.000         \$6 <td< td=""><td></td><td>Design and development</td><td>1</td><td></td><td>160</td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         | Design and development                  | 1               |                        | 160      |                |       |           |                 |
| Project engineering         138         95.00 hr         98.970           Substated         138         95.00 hr         98.970         928.5           Substated         0         1         13.767.00 ea         913.767         928.5           Substate Down of Treatment System         0         1         13.767.00 ea         913.767         973.70           Etart up and Shake Down of Treatment System         0         1         13.767.00 ea         913.767         973.70           Etart up and Shake Down of Treatment System         0         5         1.000.00 ea         96.000           Materials         240         65.00 hr         915.600         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.000         96.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         | Brating                                 | ł               | 1                      | 40       | 65.00          | м     | \$2,600   |                 |
| Substance         D         1         13,757.00         ea         113,757         173,77           Substance         D         1         13,757.00         ea         113,757         173,77           Substance         D         1         13,757.00         ea         113,757         173,77           Statistic         D         1         13,757.00         ea         113,757         173,77           Statistic         D         1         13,757.00         ea         113,757         173,77           Statistic         D         0         1         13,757.00         ea         113,757         173,77           Statistic         D         0         1         13,757.00         ea         153,77           Statistic         D         6         1,000,00         ea         15,600         ea         15,600           Laber         Equipment         Equipment         Equipment         48         500,00         ea         124,000           Succord ea         120,000         Ea         1226,142         1251,60         151,60         151,60           Succord ea         10         1         226,142         1226,142         1226,142         1226,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         | Monitoring and testing                  |                 |                        | 0        | 65.00          | hr    | \$0       |                 |
| Description         Image: second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u> </u>                | Project engineering                     |                 |                        | 138      | 65.90          | hr    | \$8,970   |                 |
| Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction         Construction<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Succession              |                                         |                 |                        |          |                |       |           | \$28,67         |
| Materials     6     1.000.00     ea     \$6,000       Laber     240     65.00     hr     \$15,600       Equipment     65     1.005.00     ea     \$6,000       Lab Testing     48     500.00     ea     \$240.00       Suttotal     48     500.00     ea     \$240.00       Suttotal     0     1     226.142.41     LS     \$226.142     \$226.142       Suttotal     0     1     226.142.41     LS     \$226.142     \$226.142       Suttotal     Year     0     1     \$400.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Los se Permitingat      | (10% engineering costs)                 |                 | 0                      | 1        | 13,7\$7.00     | Eà    | \$13,767  | st <b>3,76</b>  |
| Laber     240     65.00     hr     \$15,600       Equipmenti     65     1,000.00     #2     \$6,000       Lab Testing     48     500.00     #2     \$24,000       Suttorer     1     226,142,41     LS     \$226,142       Suttorer     0     1     226,142,41     LS     \$226,142       Suttorer     0     1     226,142,41     LS     \$226,142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Start-up and Shake Dov  | en of Treatment System                  | - <del></del> - |                        |          |                |       | <u> </u>  |                 |
| Equipment<br>Lab Testing 65 1.000.00 ea \$60.000<br>Lab Testing 751.60<br>50000 ea \$24.000<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>151.60<br>1 |                         | Materials                               | - {             | :                      | 6        | 1.000.00       | 64    | \$6.000   |                 |
| Lab Testing         48         500.00         ea         424.000           Succord         1         226.142.41         15         151.62           Succord         0         1         226.142.41         15         1226.142.41         15           Fortai         Year         0         1         226.142.41         15         1420.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         | Laber                                   |                 |                        | 240      | 65.00          | hr    | \$15,600  |                 |
| Succession         Control         Succession                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Equipment                               |                 |                        | 6        | 1,005.00       | 22    | \$6.000   |                 |
| Company         (15% capital costs)         0         1         226.142.41         LS         \$226.142         :226.74           Fotal         Year         0         1         226.142.41         LS         \$226.142         :226.74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         | Lab Testing                             |                 |                        | 48       | 500.00         | 4     | \$24,000  |                 |
| Total Year C 3400.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Succession              |                                         |                 |                        |          |                | 1     |           | 351 <b>.8</b> 0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Co-context              | (15% capnal costs)                      |                 | G                      | 1        | 226,142,41     | LS    | \$226.142 | :226.14         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                         |                 |                        |          |                |       |           |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tetzá                   |                                         |                 | -                      |          |                |       |           |                 |

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hr: sour

IC: indirect capital cost

LS: timp sum

## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No.3 Soil Vapor Extraction, Groundwater Air Sparging and Monitoring

## Annual System Operation Cost Detail

|                          | item                                             | Quantity | 6ate           | Units    | Frequency | Yearts) of AOC Expenditure            | Totativear |
|--------------------------|--------------------------------------------------|----------|----------------|----------|-----------|---------------------------------------|------------|
|                          |                                                  |          |                |          | )iyear    |                                       |            |
| perating Labor Cost      | Item 1: Groundwater mongoring                    | :0       | £5.00          | hr       |           | 1 to 15                               | \$2,60     |
| ost-Construction)        |                                                  | 208      | ÷5.00          | hr i     |           | 1 to 19                               | \$13.52    |
|                          | hen 2. SVEIAS system monitoring                  | 1        | <b>≙</b> 30.00 |          |           | 1 10 15                               | \$40       |
|                          | item 3: Training                                 |          |                |          |           | i ta 15                               | \$3.00     |
| ubtotal                  |                                                  |          |                |          |           | 1 to 10                               | \$13,52    |
| unina Maintananee Ma     | terials and Labor Cost                           |          |                |          | Uyear     | 4. AF                                 | \$1,90     |
|                          | tem 1: Groundwater monitoring annual maintenance | 1 1      |                |          |           | 1 to 15                               |            |
|                          | item 2: SVElaix sparge system annual maintenance | 1 1      | 1.000.00       | lιs      |           | i to 10                               | \$1,00     |
|                          | item 3: Samoting field kit                       | 2        | 75.00          | day      |           | 1 to 15                               | \$1        |
|                          | nen 3: Sampang mea wi                            |          |                |          |           | 1 to 15                               | \$1,15     |
| ubtotal                  |                                                  |          |                | <u> </u> |           | 1 to 10                               | \$1.00     |
| unitary Materials and S  |                                                  | <u> </u> |                | 1        | 3)yzar    |                                       | 1.         |
| Averal Automotoria       | Process Chamicals                                | ) 🤉      |                | LS (     |           |                                       |            |
|                          | Electricity (Phase 1)                            | 1        | 152,000.00     | 115      |           | 1 10 3                                | \$152.0    |
|                          | Electricity (Phase 2)                            | 1 1      | 14,200.00      |          | ĺ         | 4 to 10                               | \$14,2     |
|                          |                                                  | 1 0      | ]              | 115      |           |                                       | 1          |
|                          | Water                                            | 1 0      | ]              | lis      | Ì         | 1                                     |            |
|                          | 26mm                                             |          | 430.00         | 5        | 1         | 1 to 15                               | \$4        |
|                          | Fuel                                             |          |                | -        | <u> </u>  | 1 to 15                               | 54         |
| lubtotal                 |                                                  |          | ļ              | 1        | ł         | 4 to 10                               | \$14.20    |
|                          |                                                  |          | ļ              |          |           | 1 10 3                                | \$152.0    |
|                          |                                                  | ╺┽╶╼╴    | · <u> </u>     | 1        | liyear    |                                       |            |
| Sisposal of Residues     | 111 3 say during and                             | 1        | \$90.00        | n's      |           | 1 to 15                               | \$5        |
| Subtotal                 | Wash water, sludge, ect.                         | 1        | 1              | 1        |           | 1 to 15                               | 1 35       |
|                          |                                                  |          | <u> </u>       | <u> </u> | ) jyear   | · · · · · · · · · · · · · · · · · · · |            |
| Purchased Services       |                                                  |          | ĺ              |          | 1174540   |                                       | 1          |
| Professional Servi       |                                                  |          | 525.00         | a wat    |           | 1 10 15                               | \$5.0      |
|                          | item 1: Laboratory Fees                          | 12       | }              | dinon th |           | 1 to 15                               | 1 11.6     |
|                          | item 2: Engineer review/ consultation            |          |                | 15       |           |                                       |            |
|                          | Kem 3:                                           | <u> </u> | ·              | 10       | <u> </u>  | 1 (0 15                               | \$6.5      |
| Subtotal                 |                                                  |          |                |          |           | 1010                                  |            |
| <b>A</b> 44              |                                                  |          | }              | 1        | 1/year    |                                       |            |
| Other:                   |                                                  |          |                | ιs       |           |                                       | 1          |
|                          | n included in other line inems                   | 1        |                | ιs       |           | ļ                                     |            |
| Insurance                |                                                  |          |                | LS       | ł         | 1                                     | 1          |
| Taxes, Ricensing, permit |                                                  |          |                |          |           |                                       | 1          |
| Maintenance Reserve F    | und                                              | 1        | ÷ 779.1        | 9115     | 1         | 1 10 15                               | \$5,3      |
|                          | prorated for each year of implementation         |          |                | <u> </u> |           | 1 to 15                               | \$5.7      |
| Subtatal                 |                                                  |          |                | <u> </u> |           |                                       |            |
|                          |                                                  |          |                | 1        |           |                                       | \$183.9    |
| Total Annual Operatio    | ng Cost Lincludes GW Monitaring)                 |          |                |          | [         | 1 te 3                                |            |
| Cores winnees when all   |                                                  | ł        | 1              | 1        |           | 4 to 10                               | \$46,1     |
|                          |                                                  | Ì        | 1              | 1        | 1         | 11 to 15                              | \$17.      |
|                          |                                                  | ĺ        | 1              | 1        | 1         | 1 to 15                               | \$6,       |

Number of years of implementation:

15

ADC: annual operating cost AS: air sparge hr: lour LS: lump sum SVE: soil vapor extraction GW: groundwater

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 4 Alternative 3 Plus Excava bax of Surface Seils Containing Benzolabyreno and Disposal at the Fort Wainwright Landfill

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Grant Capital Care - Balait

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tear of QC Expenditure | (internet in 199 |                    | at [1    |                     |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|--------------------|----------|---------------------|
|                               | Auf angestalleren für ben, i 1.4." dammen Bert unge Breite andes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | 62               | 1,415.15           |          | 45,191              |
| primery est                   | Nel spinister für ihr, i 54° denne mit ein eine som einer.<br>Indenne is im mer 60°, 7 den verspilte mit mit ein judi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ì                      | 12               | 120.25 m           |          | 17 445.             |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | ¥2               | 546 50 m           |          | 54 <b>1, jac</b> 5; |
| 4                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 62               | 650.15 m           |          | 15 <u>2</u> ,788.   |
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| Server Balls                  | freit uns ballen ich bart, 4" Generale, Poli ange regressialen unfor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •                      | 21               | 120.25             |          | 12.575.             |
|                               | Transform to his state Gall, 27 state strategy for some well, som handfills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | 21               | 646.50             |          | 111576              |
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| 1                             | ter and the second second and the second second second second second second second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | 21               |                    |          |                     |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 21               | 150 00 (13         | 1        | 12.15               |
|                               | ting an integral and the statement of statement with the state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | 25.000           | \$ 47.6            |          | 1211_75             |
|                               | August survey as and an end of the second state present party from Biffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | 0                | 10.000.00[1        | s į      | -                   |
|                               | Serve and with MIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 101              | 5,000.00           |          | 19.2                |
| Searge can mean               | feri de languist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                      | 101              | 9.053.00 m         |          | 156.53              |
|                               | Tentan terrer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 10               | 1,233,900          |          | 1010                |
| 1                             | Kale spiritur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 10               | 1213.00            |          | 112.30              |
|                               | Mint afremeine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  | 2 133.45           |          | :27.35              |
|                               | Guest lactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | 10               |                    |          | : <del>.</del>      |
|                               | Ergarian Minit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | 10               | 9.651.00           | - 1      | 112.00              |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 10               | 1,293,00           |          | _                   |
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| ł                             | Dem inver with in 6 all the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | 10               | 10,344.00          | • 1      | 1102.00             |
|                               | Lines terrat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | 10               | 414.75             | 5        | 3-0 <u>0</u> ,00    |
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|                               | Sarajing jarta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | 10               | 1,000.00           |          | a 19.00             |
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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                  |                    |          | 111                 |
|                               | Electronic times of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        | 10               | 1.090.00<br>200.42 |          | 102                 |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | L IQ             |                    |          |                     |
|                               | 1710 processing uptioned windle:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A                    | 1 1              | 96 <b>,90</b> (    |          |                     |
| 10 Frantmant                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | ( e              | 2.55               |          | •                   |
|                               | Encompter de para estatel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | 6                | 5.25               | ព        | 1                   |
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|                               | Conferences and survival provided print, 2 surprise 200 CT account                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | اه ا             | 5,000.001          | ls       | 1                   |
|                               | Teamminister terretten                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                  | 2.5710             |          | ,                   |
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|                               | ingen & hearth down fill it strenge at specie and in 196 Anna faith ingenet billions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        | 0                | Z 35               |          |                     |
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|                               | Cap antat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | 1 0              | 15,000,00          | LS       |                     |
| and for some spectrum summer. | tite many to all many texting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 0                | 7 55               | 8        |                     |
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|                               | Harry places                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                  | 600.00             |          | ,                   |
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| igenerat Par Louis            | Caternan de para villant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | •                      | 0                | 17.53              |          | 1                   |
|                               | Complexities and Synthesis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  |                    |          |                     |
|                               | Terretaining and the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        | 0                | 10,000,003         |          |                     |
|                               | Confirmation and senses province excention into 1 senses 200 CT attained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | 9                |                    |          |                     |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ¥1                     |                  | 2.55               | Ċ        |                     |
| ground for Sic Fel            | E ( Carattan, Carpeter allerte)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 1 0              | 32.33              | <b>σ</b> |                     |
|                               | Construction and Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | 0                | 10,244.00          | LS       |                     |
|                               | City available and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                  | 5,000.001          | 15       |                     |
|                               | Translability territory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  | 300 001            |          |                     |
|                               | Conferences and sample emission economic stars, 1 parents 200 CT an average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | <u></u>          | 2                  |          |                     |
|                               | Escanstant up page mucht                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - M                    | 1 "              | 2 55               |          |                     |
|                               | Corp. Pro: has and type links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 0                | 9 70               |          |                     |
|                               | Transmister waters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 0                | 5.000.00           |          |                     |
|                               | Conferences on America and Acti according with 1 second 200 GT according                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | 0                | 300 00             | -        |                     |
|                               | Lange party and Lange and the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of  | ə ə                    | 5                | 2,959.00           | -        | :                   |
| anterna de al Referencia      | Auf antipaper and an experiment (25 left) 4" subsets" (1), major representation helist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 34                     |                  | 22 40              | J.       |                     |
| ICENTRON STATE                | Sagrang des tanonnen and fammene an watter in dante pf. Co. bart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA                     | 1                | 16.47              | u        | <u> </u>            |
| ALL ALL SHE FRIDE             | 6 hant china and well degre volumete anges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                      | <del>  </del>    |                    |          |                     |
| and in these sub-trap         | Pressen der verter ertereten rögening 1166 ma-meter in samer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | **                     | ╪━──┊            |                    |          |                     |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                      |                  | 220.00             |          |                     |
|                               | Partamatin ny dial grain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | 32               |                    |          |                     |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                      | 1,900            |                    |          | ш.                  |
| A SAC MALLAND AND A SAC       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 2,240            |                    |          | 1913                |
| ut Warmerer Lauff             | Handay as careases to figh Manager (19978 (et parties annual)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                      | 2.210            | 0.00               | स्त      |                     |
|                               | Company (australia Valuate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                      | 10               | 500.00             | - 1      | 61                  |
|                               | Confirmation and sample statyment excention (rate, 1 sample/200 CT statement)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 2.283            | 2.99               | in i     | +K,1                |
|                               | (equal) and plant (R (assessed and the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>               | 110              | -                  |          | 124                 |
| Academic Street a             | Stat (marray, SYL, ar marge) rates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ) "                    | 1 1              | T                  |          |                     |
| ni si Germe Actua             | Parageterin antalasi shin meneri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                      |                  |                    |          | 1:30                |
|                               | Undersymptic sales, specific statistics, and and dependents. Without a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                      | 5,000            | 1 10.00            |          | 1.10                |
|                               | and a state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second  |                        | 1 0              |                    |          | 1                   |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                      | 1 *              | 5.25               |          | j                   |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                      | 10               | 1,700.00           | [**      | 102                 |
|                               | Fin trace decisions and revers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                      | 1                | 10,000.00          | ន        | 194                 |
|                               | San renter store                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                      | 15               | 670 00             | i        | <u>т</u> ы:         |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                  |                    | -        |                     |
|                               | Cafementer un sampe MillyMal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                  | 1 .                |          | لنظراب إ            |
|                               | Габланати на канани напунка<br>Так                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4                      |                  |                    |          | ניםנוין<br>נחלי     |

| CY: calair yarê                                  | 1717: her samme sove skornal deretyat     |
|--------------------------------------------------|-------------------------------------------|
| Dû desan cantal yanî                             | XI: pet sysicate for Des skornalen        |
| alî salah                                        | PyC: paymen anterin                       |
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| ier: Same<br>Life Kanaar Sevel<br>13. Kanay waxe | 27: name vitt<br>\$7€ pail vanue «trustan |

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#### Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMD - Alternative No. 4 Alternative 3 Plus Excavation of Surface Soils Containing Benzo(a)pyrene and Disposal at the Fort Wainwright Landfill

|                           | lien.                               | Year of IC Expenditure | Quantity | Rate         | Units | l         | Éost     |
|---------------------------|-------------------------------------|------------------------|----------|--------------|-------|-----------|----------|
| Engineering: Design to In | nplementation                       | 0                      | 1        |              | 1     | Í         |          |
|                           | Administration and supervision      |                        | 320      | 85.00        | br    | \$27.200  |          |
|                           | Design and development              |                        | 720      | 75.00        | he    | \$54.000  |          |
|                           | Bratting                            |                        | 288      | 65.00        | hr    | \$18,720  |          |
|                           | Monitoring and testang (Year D)     |                        | D        | 65.00        | l hw  | \$0       |          |
|                           | Project engineering                 |                        | 540      | 65.00        | hr    | \$41,600  |          |
| Subtotal                  |                                     |                        |          |              |       |           | \$141,52 |
| Engineering : Decommiss   | sioning                             | 15                     |          |              |       |           |          |
|                           | Administration and supervision      |                        | 80       | 85.00        | м     | \$5,800   |          |
|                           | Design and development              |                        | :60      | 75.00        | hr -  | \$12,000  |          |
|                           | Grafting                            |                        | 48       | 65.00        | hr    | \$3,120   |          |
|                           | Monitoring and testing              |                        | 0        | 65.00        | br :  | \$0       |          |
|                           | Project engineering                 |                        | 120      | 65.00        | hr .  | \$7,800   |          |
| Subtotal                  |                                     |                        |          |              |       |           | \$29,72  |
| License/Permit/Legal      | (10% engineering costs)             | 0                      |          | 17, 124.00   | 23    | \$17,124  | \$17,12  |
| Start-up and Shake Dow    | m of Treatment System               | 0                      |          |              |       |           |          |
|                           | Materials                           |                        | 6        | 1,000.00     | 24    | \$6,000   |          |
|                           | Labor                               |                        | Z40      | <b>55.00</b> | hr    | \$15,600  |          |
|                           | Equipment                           |                        | 5        | 1,000.00     | 51    | \$6,000   |          |
| _                         | Lab Testing                         |                        | 48       | 500.00       | ы     | \$24,000  |          |
| Subtotai                  |                                     |                        |          |              |       |           | \$51.60  |
| Centingency               | (15% capital costs)                 | 0                      |          | 202,213.35   | L5    | \$202,213 | \$202,21 |
|                           | . <u>1997, and 1</u> 7 <del>-</del> |                        |          |              |       |           |          |
| Iatel                     |                                     | Year D                 |          | 1            |       | :         | \$412,45 |
|                           |                                     | Year 15                | }        |              |       |           | \$29.72  |

ea: each

ì.

hr; hour

IC: indirect capital cost

LS: lump som

## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No.4 Alternative 3 Plus Excavation of Surface Soils Containing Benzo(a)pyrene and Disposal at the Fort Wainwright Landfill

#### Annual System Operation Cost Detail

|                           | tên                                               | 2camity  | 8aie       | Units    | Frequency | Yearts) of AOC Excenditure | Totalivear |
|---------------------------|---------------------------------------------------|----------|------------|----------|-----------|----------------------------|------------|
| Operating Labor Cost      |                                                   |          |            |          | 1/year    |                            | í          |
| Post-Construction)        | Item 1: Groundwater monstoring                    | 40       | 65.00      |          |           | 1 te 15                    | 12,500     |
|                           | tem 2: SVEAS system monitoring                    | 208      | 85.00      | hr       |           | 1 to 10                    | \$13,520   |
|                           | Item 3: Training                                  | 1        | 400.00     | នេ       | <u> </u>  | 1 to 15                    | \$400      |
| Subtotal                  |                                                   |          |            |          | }         | 1 to 15                    | \$3,000    |
| <i></i>                   |                                                   |          |            |          | ]         | 1 10 10                    | \$13,520   |
| Routine Maintenance Ma    | Terrais and Labor Cest                            |          |            | 1        | Tiyear    | T.                         |            |
|                           | Item 1: Groundwater monitoring annual maintenance | 1        | 1,000.00   | LS       |           | 1 to 15                    | \$1,000    |
|                           | Item 2: SVEar sparge system annual maintenance    | 1        | 1,000,00   | LS       |           | 1 to 10                    | \$1,000    |
|                           | item 3: Samoling field kit                        | 2        | 75.00      | dav      |           | 1 to 15                    | \$150      |
| Subiotal                  |                                                   |          |            |          |           | 1 to 15                    | 11,150     |
|                           |                                                   |          |            | l        | [         | 1 to 10                    | - 11,000   |
| Ausiliary Materials and E | ne/3y                                             |          |            | -        | 1/year    | ľ                          | 1          |
|                           | Process Chemicals                                 | 8        |            | LS       | -         |                            | \$6        |
|                           | Electricity (Phase 1)                             | 1 1      | 152,000.00 | LS       | 1         | i ta 3                     | \$152,000  |
|                           | Electricity (Phase 2)                             | 1        | 14,200.00  | 1        |           | 4 ts 10                    | \$14,200   |
|                           | Contrasty in these as<br>Walter                   | D        |            | LS       |           |                            | \$0        |
|                           | Sewa                                              | 0        |            | ιs       |           | 1                          | \$0        |
|                           |                                                   |          | 400.00     |          |           | 1 10 15                    | \$400      |
|                           | Fuel                                              |          |            |          | i         | 1 to 15                    | \$400      |
| Subtotai                  |                                                   |          |            |          | Į         | <i>4 to 10</i>             | \$14,200   |
|                           |                                                   |          |            | ļ        | ļ         | 1 to 3                     | \$152,000  |
|                           |                                                   | <u> </u> |            | <u></u>  | 1lyear    |                            | 1          |
| Disposal of Residues      | all a state and                                   | 1 ,      | 500.00     | lis –    | ,,,,      | 1 to 15                    | \$500      |
| Suhtatal                  | Wash water, shudge, ect.                          | +'       |            | <u> </u> |           | 1 to 15                    | \$500      |
| 3001014                   |                                                   |          |            | <u> </u> |           | <u> </u>                   | <u> </u>   |
| Purchased Services        |                                                   |          |            |          | liyear    |                            | Í          |
| Protessional Servic       | 25                                                |          |            |          |           |                            | \$5,000    |
|                           | Item 1: Laboratory Fees                           | 1 8      | 625.00     |          | [         | 1 te 15                    |            |
|                           | item 2: Engineer reviewi consultation             | 12       | 130.00     | month    | 1         | 1 to 15                    | \$1,560    |
|                           | Item 3:                                           | 0        |            | 15       |           |                            | 10         |
| Subtotal                  |                                                   |          |            |          |           | 1 to 15                    | \$5,560    |
|                           |                                                   | <u></u>  |            | <u></u>  | l liyear  | <u> </u>                   |            |
| Qthe:                     | · · · · · · · · · · · · · · · · · · ·             | 0        |            | LS .     | i rikesi  | {                          | \$0        |
|                           | nclused in other line items                       | iŏ       |            | LS       |           |                            | \$0        |
| Insurance                 |                                                   | 1 5      |            | LS       | }         |                            | 1 10       |
| Taxes, Icensing, permit r |                                                   | ۳ I      |            | 14       | }         |                            | }          |
| Maintenance Reserve Fu    |                                                   | .        |            | 1.0      | Į         | 1 10 15                    | 15,168     |
|                           | iorated for each year of implementation           | 1 1      | 5.167.67   | 10       | <u> </u>  | I to 15                    | \$5,100    |
| Subtotel                  |                                                   |          | ·          | 1        |           | 11917                      | 100        |
|                           |                                                   |          |            | 1        | ]         |                            | 1          |
| Tatel Accust Operation    | Cost Lincludes GW Monitoring)                     | 1        | l          |          |           | 1 to 3                     | 1183,298   |
| 1418, Sunsti Oherstille   | ,, -/, -/, -/, -/, -/, -/, -/                     | ļ        |            | 1        |           | 4 te 10                    | \$45.498   |
|                           |                                                   |          |            |          | 1         | 11 to 15                   | \$15,778   |
|                           |                                                   | l        |            | ]        |           | 1.10                       | 10,000     |
| Counterstar Mani          | toring Portion Of Total AOC                       | (        | 1          | 1        | 1         | 1 to 15                    | \$8,600    |

Number of years of implementation:

15

ABC: annual operating cost AS: air sparge ea: each hrt hour SVE: soil vapor extraction GW: groundwater

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# Fort Wainwright QU-2 Feasibility Study Baseline Cost Estimate - ORMO - Alternative No. 5 Alternative 3 Plus Excevation of Surface Soils Containing Benzolabyrens and Onsite Solidification

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Direct Capital Caus - Dami

| pr Sangargo Walls<br>Transform (SG-1wa, 1 2)4" Sampin, Mink was weine weiled<br>Transform to the Argue (SG-1 of the Argue (SG-1)<br>Magnitude area come can be well<br>Magnitude area come can be well<br>Paper to Arman, SG weiner the same area well and your analytics of June 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                |                  |            |                |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------|------------------|------------|----------------|----------------|
| Transform in the lower 60%. If these surveys in such wait, and, instability in<br>Manhair way youry was and waith                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                 | - <del>0</del> | 62               | 1,0635     |                | 12 18          |
| Market and the set of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 |                | 52               | 121.75     |                | 37 455         |
| Parat in terrane. (50° second to and part and part and part and part and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |                | F7               |            |                | 163,083        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | . I                                                                                                             |                | 62               | ISA 15     | -              | r S.Z. 730     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                               |                | 62               | 154 66     | -              | 35 300         |
| Taines and fittures has each of a party                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ł                                                                                                               |                | :                | 18,000,000 | - 1            | -1             |
| Bengen ger ersetagehört bert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |                |                  |            | -              | 14.44          |
| feinen fells . Fill materie (fe ber, 4' aprese, Phi, ause regentates mitt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 | _              | Z1               | 125,251    |                | 12.52          |
| Transition of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms of terms o               |                                                                                                                 |                | 21               | F46 50     |                | 1:1.574        |
| the second second second second second second second second second second second second second second second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |                | I ni             | 150 15     |                | 117,85         |
| محد المل أنه محمدها عنها الله عيد بها جودية "أنَّ جوهزوا ي وغيرًا                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                                               |                | 21               | 150 841    |                | 13.154         |
| Table and fillings for such the fillings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |                | Z5.000           | 1 4 2      |                | 1211.75        |
| Angleich and an anna a support state an anna a support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :                                                                                                               |                |                  | 13 000 00  |                | 10.000         |
| fangest begehafte ant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 |                | •                |            |                |                |
| Saferge fige Handal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 | 1              | 1                | 5, 325,000 |                | 1-1-10         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | 1 17             | 9.051 90   | _              | 196.51         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | 10)              |            |                | +1 <b>2.33</b> |
| i i i i i i i i i i i i i i i i i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1                                                                                                               |                | 10               | 1,215,80   | -              | 112.50         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                                                               |                | 10               | 212.65     | -              | 121.334        |
| Duct Spelar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |                | 10               | 9,051 00   | - 1            | 19551          |
| Estruction Menter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                 |                | to i             | 1,210,00   |                | 112,93         |
| Companiante recommen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 |                | 10               | \$73.67    |                | 35.23          |
| i internet and the second second second second second second second second second second second second second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | 10               | 27 20      |                | 127            |
| Over inner with last arran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                | 10               |            |                | 1103,444       |
| Zalmant Gentrett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |                | F -1             |            |                | 100,000        |
| internations (proper, first                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |                | 12               |            |                |                |
| Surging parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                | 11               | 347.50     |                | ×3 071         |
| Paralag ani der Peri kath-sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |                | 10               |            | _              | 5 T U. (UQ     |
| i general de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la co               |                                                                                                                 |                | 15               | 2176.50    |                | \$29,75        |
| Cartering Impires                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                 |                | 15               | 1.006.00   |                | 110.00         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | 10               | 720 42     | -              | :7,90          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | <u> </u>         |            | <del>n 1</del> |                |
| C (reaction, LTTD geschlaß) (capacitation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                | 1                | 7.55       |                |                |
| European in piece white                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                                                               |                | I é              | 1.5        |                |                |
| المكفف المتجوجاة بالتدية الجمارية فحائما معتجى ويؤوا                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                               | 1              | 1 1              | 300.90     |                |                |
| Conferences on annual matrice statement trans. I sample 700 CT second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 |                |                  | 5.000.00   |                |                |
| f number of the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                | 1 1              | 2.57       |                |                |
| فسيحب الشميرية بمتروديه استراعه والجرار والجريري الترزيين                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 |                |                  |            |                |                |
| محصوفين الشنبينية الكرمية الإلاي والعد وماجرين تواعمهم والا                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |                | <u>•</u>         | 8 00       |                | L              |
| Support & bacabile closes for a dispasse of practical parts on PH Namelia Interpreted we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | darani i                                                                                                        |                | •                | 2.99       |                | Þ              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | 74             | -                | : 11       |                | 1,             |
| All design Transformer and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 | 0              | 1 7              | 19,000,00  |                | 113.00         |
| Encanter in-state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                 |                | 1900             |            |                | 24 <b>94</b>   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                | 27.58            | 193 55     | 67             | 1442,20        |
| tilizang, pinantip<br>Gantimanary sai sampin materiani ng panjapa anan. 1 sampin/2014 CY as care                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |                |                  | 300.00     | _              | 13.00          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | <b>NA</b>      | <del>  .</del> ! | 1.1        |                | 1.             |
| Anti- Terren Attantation an-party services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                | 6                | 7.3        | iπ I           | \$             |
| Gauge particular and weathered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |                |                  |            |                | \$             |
| Trustability writing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 |                |                  | 200.04     |                |                |
| Conferences and sample analytical-succession trade, 3 sample 200 CV access                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                |                  | 4.35       | - 1            |                |
| auf af fan bit fan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 | 1 **           |                  | 7.39       |                |                |
| Construction and International                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |                | 1 7              |            | -              |                |
| Official and contract and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 |                | 1 2              | 10.344 (8) |                |                |
| Transministry torition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                | 9                | 5,956,80   |                | •              |
| Confirmatory and sensity and sensity and reaction of sensity 200 CT grant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | in the second second second second second second second second second second second second second second second |                |                  | 200.00     |                | •              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | ha.            |                  | دد.        | UT 1           |                |
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| Construction and Provident                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                | 5                | 5,000 00   | LS I           |                |
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| ter fer ferter Estavion Presien for weiter estavour denter 115 f dei enter a weiter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 | XA             |                  | 1.33       |                |                |
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| * a table of a state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 | 1              |                  | 110,000    |                | 13 52          |
| ine fel-lan sal R (Licenses in-plan staffel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |                |                  |            |                |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | l              | :                | 2 35       | ita I          |                |
| trapet and state State State and all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 | 1              |                  |            |                |                |
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| File lands dependent stating and research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :                                                                                                               | 15             | · _ !            |            | ) – I          |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | 15             | 15               |            |                | 19,38          |
| First handle dependent statements and reserved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n i                                                                                                             | 30             | ] *              | 225.10     | =              | 11.76          |
| Fac Taxan departmentation and reasons.<br>Site restrictions<br>Conferences constant and particle party and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 | 1              | 1 1              |            |                | \$1,424,54     |
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| Fac Taxan departmentation and reasons.<br>Site restrictions<br>Conferences constant and particle party and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 | 21             |                  |            |                |                |
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## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 5 Alternative 3 Plus Excavation of Surface Soils Containing Benzo(a)pyrene and On-site Solidification

#### Indirect Capital Cost Detail

|                           | item                           | Tear of IC Excenditure | Quantity | 916 -        | Units       |           | ost              |
|---------------------------|--------------------------------|------------------------|----------|--------------|-------------|-----------|------------------|
| Engineering: Gesign to Im | piernen sa lion                | 0                      |          |              |             |           |                  |
| •                         | Administration and supervision |                        | 350      | 85.00        | hr          | \$30,600  |                  |
|                           | Design and development         |                        | 800      | 75.00        | hr          | \$50,900  |                  |
|                           | Orašting                       |                        | 335      | <b>65.00</b> | à           | \$21,640  |                  |
|                           | Monitoring and testing (Year Q |                        | ಕ        | 309.00       | ea -        | \$19,500  |                  |
|                           | Project angineering            |                        | 580      | 65.90        | ts:         | \$35,400  |                  |
| Subtotal                  |                                |                        |          |              |             |           | \$168,340        |
| Engineering : Decommiss   | lioning                        |                        |          |              |             |           |                  |
|                           | Administration and supervision | 15                     | 80       | 85.00        |             | \$5.800   |                  |
|                           | Design and development         | 15                     | 160      | 75.00        | Ļ           | \$12,000  |                  |
|                           | Dratting                       | 15                     |          | 65.00        | 1           | \$3,120   |                  |
|                           | Monitoring and testing         |                        | 0        | 85.00        |             | \$0       |                  |
|                           | Project engineering            | 15                     | 120      | <b>55.DO</b> |             | \$7,800   |                  |
|                           | Project engineering            | 30                     | 80       | 55.00        | l hr        | \$5,280   |                  |
| Subtotal                  |                                |                        |          |              |             | Year 15   | \$29,720         |
|                           |                                |                        |          |              | <u> </u>    | Year 30   | \$5.200          |
| LicenselPermit/Legal      | (10% engineering costs)        | Û                      | 1        | 20,326.00    | ea          | \$20,325  | \$20,32          |
| Start-up and Shake Dov    | vn of Freatment System         | 0                      |          |              | ļ           |           |                  |
|                           | Hatelak                        |                        | 5        | 1,000.00     | ez          | \$6,090   |                  |
|                           | Labor                          |                        | 240      | <b>65.00</b> | 22          | \$15,600  |                  |
|                           | Equipment                      |                        | 6        | 1,000.00     | 14 <b>3</b> | \$6,000   |                  |
|                           | Lab Testing                    |                        | -18      | 500.00       | 83          | \$24,000  |                  |
| Subtotal                  |                                |                        |          |              | ļ           |           | \$51,60          |
| Contingency               | (15% capital costs)            | 0                      | ;        | 276.259.47   | LS          | \$276.259 | \$27 <b>8.25</b> |
|                           | Year                           | 0                      | Ī        |              | Î           | 1         | ±516.52          |
| Total                     | Year                           | 15                     |          |              |             | 1         | \$29,72          |
|                           | Year                           | 30                     |          |              |             |           | \$5.20           |

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hr: how

IC; indirect capital cost

LS: lump sum

## Fort Wainwright OU-2 Feasibility Study Baseline Cost Estimate - DRMO - Alternative No. 5 Alternative 3 Plus Excavation of Surface Soils Containing Benzo(a)pyrene and On-site Solidification

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## Annual System Operation Cost Detail

| Item                                                                      | Cuantity    | Rate         | Units                                        | Frequency    | Yearla) of AOC Expenditure             | Totaliyear |
|---------------------------------------------------------------------------|-------------|--------------|----------------------------------------------|--------------|----------------------------------------|------------|
| Iperating Labor Cost                                                      | 1           |              | [                                            | 1/year       |                                        |            |
| rperatarg caper cost<br>Post-Construction) item 1: Groundwater monitoring | 40          | <b>65.00</b> | hr                                           |              | 1 to 30                                | \$2,600    |
| itam 2: SVEJAS system monotoreto                                          | 208         | 65.00        | br 🛛                                         |              | 1 to 10                                | \$13.520   |
|                                                                           | 1           | 400.90       | lis                                          |              | l to 30                                | \$400      |
| ftem 3: Training                                                          |             |              |                                              |              | J to 30                                | \$1,000    |
| Subtotal                                                                  |             |              |                                              |              | 1 to 10                                | \$13,520   |
|                                                                           |             |              | r                                            | Hyzar        |                                        |            |
| Routine Maintenance Materials and Labor Cost                              |             | 1,000.00     | us                                           |              | 1 to 30                                | \$1,000    |
| Item 1: Groundwates monitoring annual maintenance                         |             | 1,000,00     | 1                                            |              | 1 10 10                                | \$1,000    |
| item 2: SVElair sparge system annual maintenance                          | 7           | 75.00        |                                              |              | 1 to 30                                | \$150      |
| Item 3: Sampling field krt                                                | - <u>-</u>  |              | <u></u>                                      |              | 1 to 30                                | \$1,150    |
| Subtotal                                                                  |             |              |                                              | 1            | 1 to 10                                | 11.000     |
|                                                                           | <del></del> |              | <u>.                                    </u> | livear       |                                        | T T        |
| Auxiliary Materials and Energy                                            | 1 5         |              | LS                                           |              | Į                                      | 50         |
| Process Chemicals                                                         | 1 1         | 152,000.00   |                                              | ł            | 1 to 3                                 | \$152.000  |
| Electricity (Phase 1)                                                     | 1 :         | 152,000.00   |                                              | 1            | 4 10 10                                | \$14,200   |
| Electricity (Phase 2)                                                     | 1 1         | 14,200,30    |                                              |              |                                        | \$         |
| Water                                                                     | 0           |              | 115                                          |              | {                                      | 50         |
| Sewer                                                                     |             | 400.00       |                                              | Į –          | 1 to 39                                | \$400      |
| <u>Fuel</u>                                                               |             | 400.00       |                                              | <u>-</u>     | 1 to 30                                | \$400      |
| Subtotal                                                                  |             |              |                                              |              | 4 to 10                                | \$14,200   |
|                                                                           |             | l            |                                              |              | 1 10 3                                 | \$152.000  |
|                                                                           |             | <u></u>      | <u> </u>                                     |              |                                        |            |
| Disposal of Residues                                                      |             |              |                                              | liyear       | 1 to 30                                | \$506      |
| Wash water, sludge, ect.                                                  | <u></u>     | 500.00       |                                              | <u> </u>     | 1 to 30                                | \$500      |
| Subtotal                                                                  | ļ           |              |                                              |              | 5 10 20                                |            |
|                                                                           | <del></del> |              | <del>† – –</del>                             | Ityear       | <u>;</u>                               | 1          |
| Purchased Services                                                        |             | ŀ            | ļ                                            |              |                                        |            |
| Professional Services                                                     |             | 625.00       |                                              |              | 1 10 30                                | \$5.00     |
| Item 1: Laboratory Fees                                                   | 8           |              |                                              |              | 1 to 30                                | \$1.58     |
| item 2: Engineer review/ consultation                                     | 12          | 1            | menth                                        |              | 1 (0.20                                | \$1,50     |
| item 3:                                                                   |             | <u> </u>     | LS                                           |              | 14- 20                                 | \$6.550    |
| Subtotal                                                                  |             | 1            |                                              | •            | 1 to 30                                | 30.00      |
|                                                                           |             | <u> </u>     | <u> </u>                                     | l<br>Nyear   | ······································ | 1          |
| Other:                                                                    | -           |              | LS                                           | 541 EM       |                                        |            |
| Administrative costs not included in other line items                     |             |              | 15                                           |              |                                        | 1          |
| insurance                                                                 |             | 1            | 15                                           | ł            | {                                      |            |
| Taxes, icensing, permit renewal                                           |             | 1            | μω                                           | 1            | ]                                      |            |
| Maintenance Reserve Fund                                                  |             |              |                                              |              | 1 re 30                                | \$3.53     |
| (5% of capital costs provated for each year of implementation;            | <u> </u>    | 3.529.98     | 1                                            | <del> </del> | 1 10 30                                | \$3,53     |
| Subtotal                                                                  |             | ļ            |                                              |              |                                        |            |
|                                                                           |             | {            | Ì                                            | T            |                                        |            |
| Total Asnusl Operating Cost (includes GW Monitoring)                      |             |              | ļ                                            | 1            | 1 to 3                                 | \$181.55   |
| - •                                                                       |             |              | 4                                            | 1            | 4 to 10                                | \$43,85    |
|                                                                           |             |              |                                              |              | 11 te 30                               | \$15,14    |
|                                                                           | 1           |              | 1                                            | 1            | 1 10 30                                | \$2.50     |

Number of years of implementation:

AOE: annual operating cost AS: air sparge hr: how LS: lump sum SVE: soil vapor extraction GW: groundwater

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