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**Thru:**

**For: Mr. Colin Wykes  
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**From: MAJ Kevin Gardner**

**Fax: 604-666-6858**

**Date: 12 September 1994**

***Total number of pages including cover:***

***Messages/Comments:***

Colin, I have taken the liberty to forward another report to you I stumbled across late this afternoon. Unfortunately, it does not detail garbage disposal operations, but does offer some documentation concerning site investigations a few years after the former pump stations and pipeline had been transferred to Canada. It may be that some of the folks associated with this particular investigation can provide additional leads or sources of information. I do not know if this particular firm (URS Corporation) is still in business, locally or otherwise, but will find out. Best regards!

DEFENSE ENVIRONMENTAL RESTORATION ACCOUNT  
Contract No. DACA 85-86-C-0015

Inventory Report for

HAINES TO FAIRBANKS PIPELINE

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January, 1987

Submitted to:

U.S. Army Engineer District, Alaska

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## 1.0 SUMMARY

The 626 mile Haines to Fairbanks Pipeline extends from Haines, Alaska, through Canada to Fairbanks, Alaska. Fourteen storage and/or pump station terminals are located along the route.

Under direction of the Army Corps of Engineers, URS Corporation conducted a limited field investigation of the pipeline between Fairbanks and the Canadian Border on August 12 and 13, 1986. This investigation involved only a selective visual check of the pipeline and facilities at easily accessible points.

The only apparent debris associated with this site is the eight inch pipeline and 14 terminals along the pipeline. A report entitled "Description of Alaskan Military Petroleum Facilities," Pamphlet 360-1, 1978, describes the Haines to Fairbanks Pipeline and associated facilities. No POLs or hazardous materials were identified. However, access to the terminals was not possible at the time of the field inventory, and minimal portions of the pipeline were visible from the Alaskan Highway.

Prior to initiating any site cleanup and restoration along the pipeline, a thorough land ownership and land status investigation will be necessary in order to determine the desires of individual owners. Upon completion of this investigation, field sampling and site reconnaissance may be required. Until a complete site investigation and debris inventory is conducted, suggestions for cleanup and restoration cannot be made.

## 2.0 INTRODUCTION

In March, 1986, the U.S. Army Corps of Engineers, Alaska District, contracted URS Corporation to investigate various former Department of Defense (DOD) properties in Alaska under Contract No. 85-86-C-0015. This work is being conducted under the Defense Environmental Restoration Account (DERA), as authorized by the Department of Defense Appropriations Act of 1984 (Public Law 98-212), and provides a methodology for determining the eligibility of selected sites for remedial actions under this program.

The Corps of Engineers has contracted URS to prepare an inventory report for each site identified in the Scope of Work dated March 17, 1986, including:

- o A general history of the site and its use;
- o Determination of current land ownership and status;
- o Determination of the presence of military materials or debris at the site; and
- o Evaluation of the eligibility of the site for possible remediation under the DERA Program.

The intent of this project is to identify sites that contain military debris or materials of concern, such as POLs and environmentally hazardous substances, and those that require no further investigation. Section 4.0 discusses criteria for this determination.

### 3.0 PROJECT AREA DESCRIPTION

#### 3.1 Location

The Haines/Fairbanks pipeline begins at approximately 3½ miles north of Haines, Alaska, at Lutak Inlet, and follows the Haines Highway into Canada to Haines Junction, then along the Alaska Highway via Tok, Big Delta, Eielson Air Force Base and to its terminus at Fairbanks Terminal, 7 miles northeast of Fairbanks, Alaska.

#### 3.2 Historical Background

Historical information on the Haines/Fairbanks Pipeline was taken from "Description of Alaskan Military Petroleum Facilities," Pamphlet 360-1, Department of the Army, 1720 Infantry Brigade, Alaska.

Between 1950 and 1952, the Haines/Fairbanks Pipeline was designed for the U.S. Army Corps of Engineers by the Fluor Corporation, Los Angeles, California. Field construction began early in 1954, with the main pipeline essentially completed before the winter season of 1954-1955. Stations and storage facilities were complete during the summer of 1955, and the necessary testing of the line was completed prior to 12 October 1955, on which date the United States Army, Alaska, accepted the pipeline and facilities.

The pipeline was constructed to transport liquid fuels from the deep water port of Haines, in Southeast Alaska, to military installations North of the Alaska Range in Interior Alaska. To meet the military needs, petroleum products from ocean tankers or tanker barges were received in bulk terminal facilities at Haines. From this point, the petroleum products were transported by the 8-inch, multiproduct pipeline to the Fairbanks area.

The line is composed of 626 miles of 8-inch pipeline, nine booster pump stations (Border, Blanchard River, Junction, Destruction Bay, Donjek, Beaver Creek, Lakeview, Sears Creek, and Timber), Fort Greely Takeoff Station, Birch Lake Tank Farm, and supporting terminal bulk storage tanks and related equipment and facilities at Haines, Tok, Eielson Air Force Base, and Fairbanks.

Most of the pipeline is surface laid, although the sections from Haines Terminal to a point 42 pipeline miles northward, and from Big Delta to Fairbanks Terminal are buried (96 pipeline miles). These sections were buried to minimize the hazard to private property and residents in these most congested areas, and to protect the pipeline from damage by heavy vehicular equipment. In addition, short sections along the route are buried to protect station personnel,

equipment and the line from possible vehicular damage and washouts during flash floods.

In 1973, the Haines/Fairbanks Pipeline was exccessed to military needs and has been up for sale by GSA since that time.

### 3.3 Ownership and Land Status

The scope of this project was limited to a selective visual check of the pipeline at easily accessible points. A detailed real estate search to determine ownership and land status was not part of this project, and therefore was not conducted. Land ownership and status along the pipeline is diverse, including Federal, State, and private ownership.

## 4.0 ELIGIBILITY FOR DERA RESTORATION

### 4.1 Eligibility Criteria

Remedial actions under the DERA Program require that a number of criteria be considered, including prior military use of the property, current land use, and the wishes of the owner. The sites identified for investigation in this project's Scope of Work are based upon Corps of Engineers records, which indicate that the subject properties were used by the military. In many cases, little information is available to determine the function, use, and condition of the properties, requiring research of the history and land ownership of the sites. This information has been used to establish criteria for determining whether a formal site inspection and inventory is required for each site.

Three criteria have been identified for this determination. A "negative" report is to be prepared if:

- o The property was acquired, but never used by the military;
- o The property is still owned by the military and in active use; or
- o The landowner states that no military-related debris is at the site and/or desires no action on the part of the U.S. Army Corps of Engineers with regard to cleanup or restoration.

If any of these criteria is met, site inspections and inventories will not be performed. The report will recommend that no further actions be taken by URS or the Corps of Engineers for that particular site. If none of these criteria are met, a "positive" report is to be prepared, for which site inspections and inventories will be performed to:

- o Develop an inventory of types and approximate volumes of debris;
- o Identify existing and potential disposal sites for the debris;
- o Assess potential restoration alternatives; and
- o Prepare a preliminary cost estimate for the recommended restoration alternative(s).

## 4.2 Site Eligibility Evaluation

Because the Haines to Fairbanks Pipeline was developed and used by the military, it is eligible for site cleanup and restoration under the DERA Program. A limited field investigation and debris inventory was conducted at the U.S. Army Corps of Engineers' request.

## 5.0 FIELD INVESTIGATIONS

### 5.1 Debris Material Inventory

The limited site investigation/debris inventory conducted by URS Corporation on August 12 and 13, 1986 found no apparent debris associated with the Haines to Fairbanks pipeline (Fairbanks to Canadian Border section) except the pipeline itself and associated pump stations, signs, and milepost markers. A site investigation of the Haines to Canadian Border portion of the pipeline was not conducted, since it was not considered necessary by the Corps of Engineers.

A report entitled "Description of Alaskan Military Petroleum Facilities" describes in detail the Haines/Fairbanks Pipeline and its associated pump station facilities. Refer to this document for more information about the quantity and types of facilities along the pipeline system. The information in this document can readily be used to help determine future user or disposal options.

### 5.2 POL and Hazardous Material Inventory

Potential POL or hazardous materials were not identified by the site inventory crew because access to the pump stations was not possible at the time of this site investigation. Therefore, POLs and hazardous materials may exist at these sites, although there is no indication that they are present at this time.

### 5.3 Site Information

#### 5.3.1 Environmental Constraints

There are no environmental constraints apparent which would affect the cleanup and restoration at the various pump stations and terminals along the Haines to Fairbanks pipeline. These pump stations and terminals are easily accessible by road along the Alaska Highway.

~~The cleanup and restoration of the pipeline itself could in some areas cause more damage to the environment than would abandoning the pipeline in place.~~ The pipeline crosses discontinuous permafrost, wetlands, uplands, and streams. Site specific environmental impact mitigations must be delineated for each of the physiographically distinct pipeline segments. Finally, the land paralleling the pipeline is heavily revegetated and less accessible than the pump stations and terminals.

### 5.3.2 Cultural Factors

Removal of the pipeline and associated facilities will have no impact upon historic or cultural resources. It could, in certain areas, have beneficial social impacts where the owner(s) would like unsightly, or possibly unsafe, debris removed.

### 5.4 Disposal Sites

Assuming no POLs or hazardous materials are identified along the pipeline or at the pump stations and terminals, disposal of debris could be at any permitted disposal facility. The large area involved in this site (626 miles) would necessitate the need for several disposal sites along the Alaska Highway. Several DEC permitted disposal sites are located along the Highway between Fairbanks and the border, including Fort Wainwright and Fort Greely.

If hazardous wastes or POLs are found, disposal would be allowed only at an EPA/DEC approved disposal facility for hazardous wastes.

### ~~5.5~~ Other Observations

A thorough investigation of the Fairbanks to Canadian Border portion of the Haines to Fairbanks pipeline was hampered by the inaccessibility of pump stations and terminals. Also, the pipeline was not entirely visible from the Alaska Highway.

The report, "Description of Alaskan Military Petroleum Facilities," mentions that weekly aerial surveillance of the pipeline was performed. This was done with civilian aircraft under contract to the military. Army records of this surveillance provided by the pilots may have information regarding debris along the pipeline.

## 6.0 RESTORATION CONSIDERATIONS

### 6.1 Field Sampling Program and Site Reconnaissance

If the Fairbanks to Canadian Border portion of the Haines to Fairbanks pipeline is to be considered for cleanup and restoration under the DERA Program, further site reconnaissance is necessary. The pump stations and terminals should be further examined to identify possible POLs or hazardous materials. Although all buildings and equipment at the pump stations and terminals are discussed in the report "Description of Alaskan Military Petroleum Facilities," site reconnaissance should include measuring buildings and tanks to estimate the volume of materials for cleanup. Further investigation of the pipeline might best be accomplished by aerial surveillance to identify any obvious debris along the pipeline route.

## 6.2 Restoration Alternatives

Prior to initiating any site restoration, a thorough real estate search would be necessary to determine present ownership. This would allow the Corps of Engineers to determine the property owners' desires and to make arrangements for further site investigation. In several cases, the pump stations are being used, and removal of all facilities and improvements may not be required by the property owner. A land owner may want portions of the improvements to remain and other improvements removed. In some cases, the improvements may not be considered a problem, but any POLs or hazardous materials should be identified and disposed.

Recommendations for site restoration will vary, since the Haines to Fairbanks Pipeline is actually many separate sites subject to the desires of individual owners. In general, restoration will include regrading and reseeding disturbed areas.

## 6.3 Preliminary Cost Estimate

Until the owners' desires are determined, the extent of cleanup and restoration required is uncertain. The amount of debris involved is unclear, and the cost for disposing of this debris can not be determined without further site reconnaissance and research.

## 6.4 Site Prioritization

The site and locations within a site are assigned priority for restoration according to the following criteria. Of the highest priority is a site (location) containing an eminent safety hazard, one that poses a known threat to human life, health, or safety. A number two priority is a site (location) that poses a possible human safety hazard and/or a location with significant environmental impact or potential impact. Last in the prioritization are sites (locations) that contain inert or unsightly debris. This includes materials that pose no potential hazard or environmental impact.

The Haines to Fairbanks pipeline and associated pump stations are of low priority for cleanup and restoration under the DERA Program. There is no indication that POLs or hazardous materials exist, although further site reconnaissance may prove otherwise, changing this site's priority accordingly.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

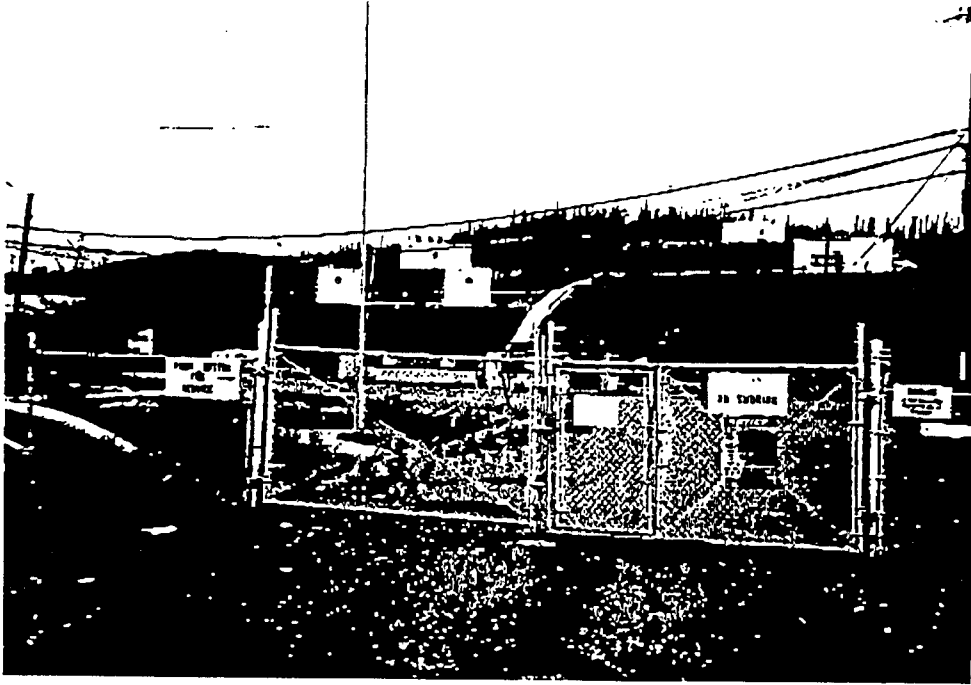
A limited site investigation/debris inventory conducted by URS Corporation at the request of the Army Corps of Engineers confirmed that debris related to the Haines to Fairbanks pipeline exists. Therefore, this site is assigned a "positive" designation, and it is recommended that the Corps of Engineers take necessary actions to further investigate this site under the DERA Program. Recommended actions include determination of land ownership, status, and the desires of the owners. Upon learning the owners' desires, a complete debris inventory with recommendations for site cleanup and restoration could be conducted.

APPENDIX A  
References

LIST OF CONTACTS

- 1) "Description of Alaskan Military Petroleum Facilities"  
Pamphlet 360-1, Department of the Army  
1720 Infantry Brigade, Alaska  
October 1978

APPENDIX B  
EPA Inventory Forms and Photographs



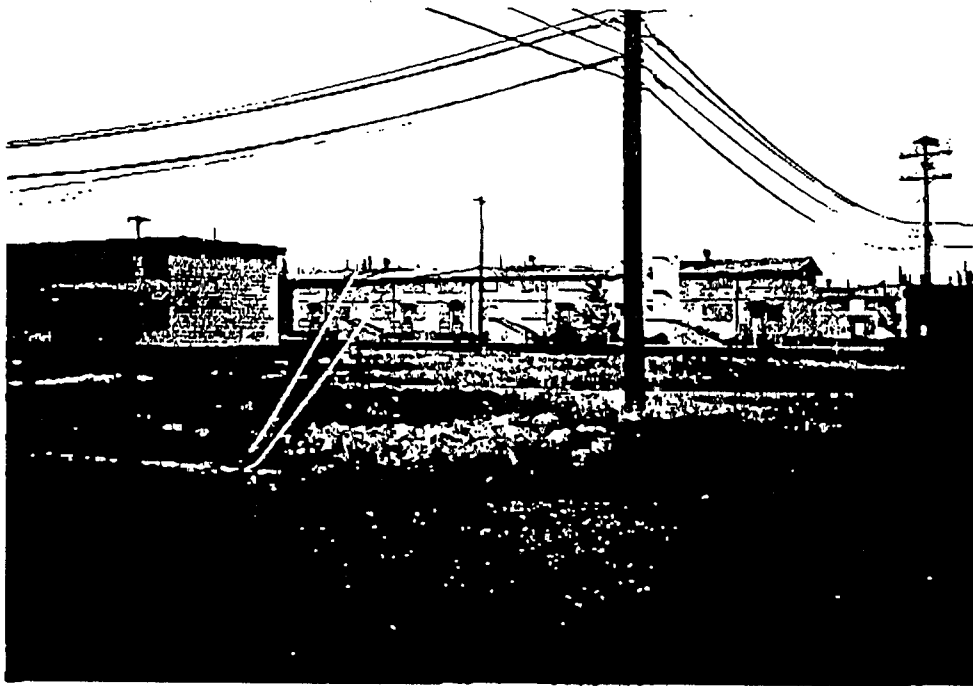
TOK TERMINAL STORAGE TANKS



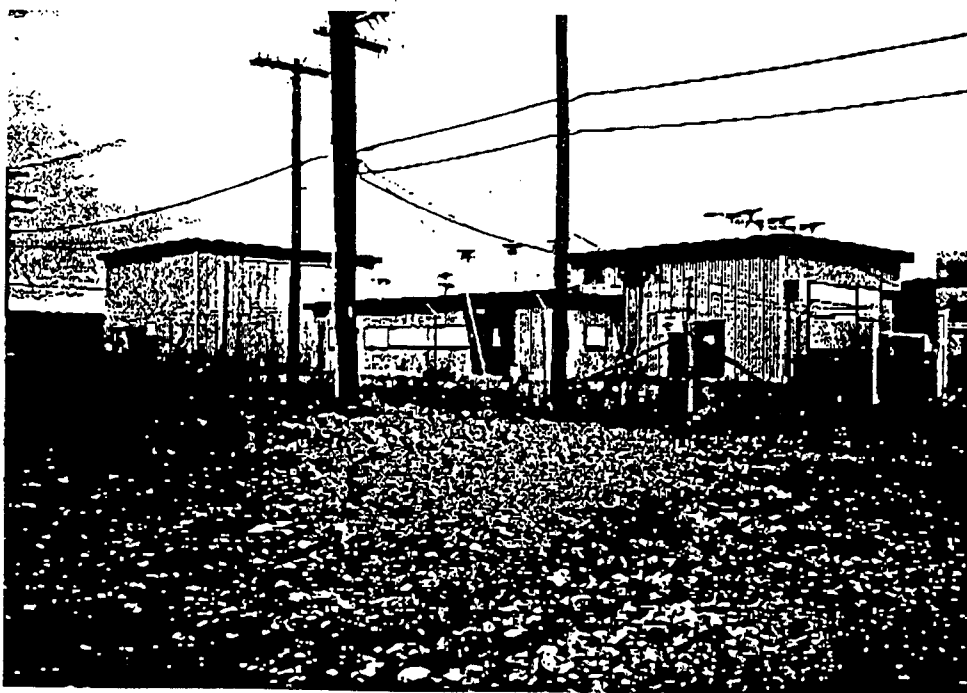
TOK TERMINAL

**URS**  
Corporation  
Anchorage, Alaska

**Haines To Fairbanks  
Pipeline Photographs**



HOUSING @ TOK TERMINAL



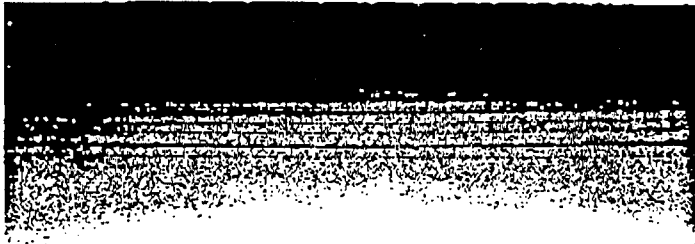
OPERATIONS BLDGS. @ TOK TERMINALS

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Anchorage, Alaska

**Haines To Fairbanks  
Pipeline Photographs**

PIPELINE CROSSING ON THE  
ALASKA HIGHWAY WITH  
TYPICAL SIGN READING:

DANGER  
HIGH PRESSURE  
PIPELINE CROSSING



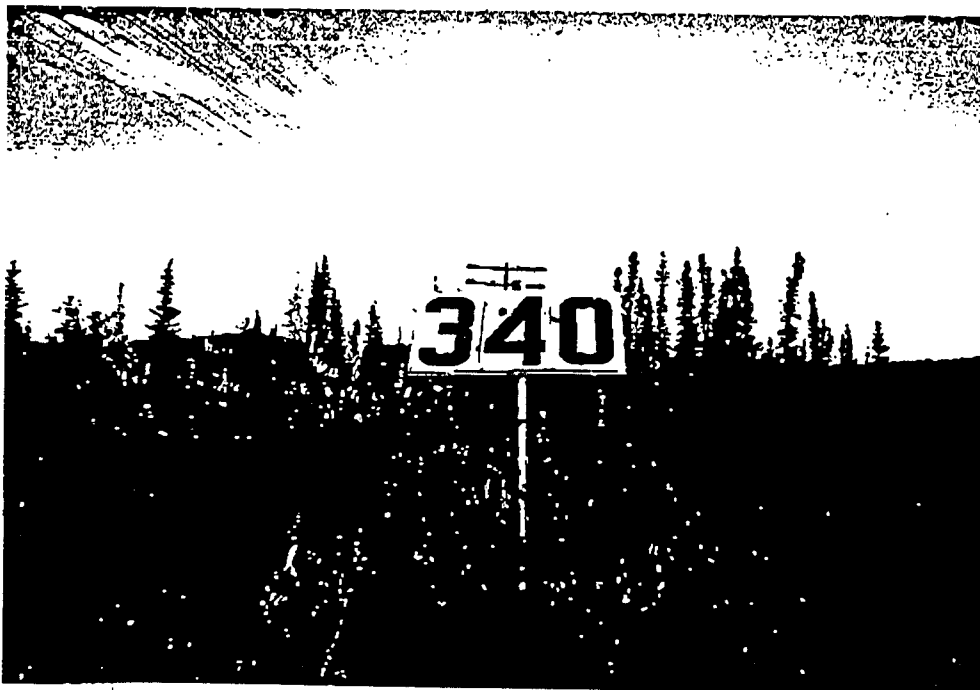
PIPELINE MILEPOST MARKER

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Pipeline Photographs**



SEARS CREEK PUMP STATION




PIPELINE MILEPOST MARKER

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**Haines To Fairbanks  
Pipeline Photographs**

EPA		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART I - SITE INFORMATION AND ASSESSMENT			I. IDENTIFICATION	
II. SITE NAME AND LOCATION					01 STATE 02 SITE NUMBER	
01 SITE NAME (and address if applicable)			02 STREET ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER			
Haines to Fairbanks Pipeline						
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CENSUS DIST.
09 COORDINATES LATITUDE		LONGITUDE				
10 DIRECTIONS TO SITE (showing how to reach from main road)						
The pipeline begins in Haines, AK, and follows the Haines Highway into Canada to Haines Junction, then along the ALASKA Highway via Tok, Delta, Eielson Air Force Base and to its terminus 7 miles NE of Fairbanks.						
III. RESPONSIBLE PARTIES						
01 OWNER			02 STREET (showing routing if applicable)			
Department of the Army / State of AK						
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
				( ) - ( ) - ( )		
07 OPERATOR (if different from owner)			08 STREET (showing routing if applicable)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
				( ) - ( ) - ( )		
13 TYPE OF OWNERSHIP (check one)						
<input type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER <input type="checkbox"/> G UNKNOWN						
14 OWNER OPERATOR NOTIFICATION ON FILE (check one)						
<input type="checkbox"/> A RCRA 3001 DATE RECEIVED _____ <input type="checkbox"/> B UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED _____ <input type="checkbox"/> C NONE						
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
01 ON SITE INSPECTION		BY (check one)				
<input type="checkbox"/> YES    DATE <u>8/12/86</u> <input type="checkbox"/> NO    MONTH DAY YEAR		<input type="checkbox"/> A EPA <input type="checkbox"/> B EPA CONTRACTOR <input type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input checked="" type="checkbox"/> F OTHER: <u>URS Corporation</u>				
CONTRACTOR NAME(S)						
02 SITE STATUS (check one)			03 YEARS OF OPERATION			
<input type="checkbox"/> A ACTIVE <input checked="" type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN			_____ / _____ YEAR    _____ YEAR <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCE(S) PRESENT, KNOWN OR ALLEGED						
Possible presence of POLS in pipeline and storage tanks and possible spills along line and at pump stations. Also possible PCB containing transformers at pump stations.						
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION						
If spills exist possible soil and water contamination. However, there is no evidence at this time that spills exist.						
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (check one)						
<input type="checkbox"/> A HIGH <input checked="" type="checkbox"/> B MEDIUM <input type="checkbox"/> C LOW <input type="checkbox"/> D NONE						
VI. INFORMATION AVAILABLE FROM						
01 CONTACT		02 ORGANIZATION		03 TELEPHONE NUMBER		
Colt Denfield		Army Corps of Engineers		1 907 753-2703		
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE	
Steve Stielstra			URS Corp.	1 907 278-3695	10.1.86	



	<b>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT</b>		<b>I IDENTIFICATION</b>	
	<b>PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS</b>		01 STATE	02 SITE NUMBER
<b>HAZARDOUS CONDITIONS AND INCIDENTS</b>				
01 <input checked="" type="checkbox"/> <b>A GROUNDWATER CONTAMINATION</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
<i>No contamination observed, but potential exists, due to extensive</i>				
01 <input checked="" type="checkbox"/> <b>B SURFACE WATER CONTAMINATION</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
<i>No contamination observed, but potential exists.</i>				
01 <input type="checkbox"/> <b>C CONTAMINATION OF AIR</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
01 <input type="checkbox"/> <b>D FIRE EXPLOSIVE CONDITIONS</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
01 <input type="checkbox"/> <b>E DIRECT CONTACT</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
01 <input checked="" type="checkbox"/> <b>F CONTAMINATION OF SOIL</b> 03 AREA POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
<i>No contamination observed, but potential exists</i>				
01 <input type="checkbox"/> <b>G DRINKING WATER CONTAMINATION</b> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
01 <input type="checkbox"/> <b>H WORKER EXPOSURE/INJURY</b> 03 WORKERS POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	
01 <input type="checkbox"/> <b>I POPULATION EXPOSURE/INJURY</b> 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE _____)   04 NARRATIVE DESCRIPTION	<input type="checkbox"/> <b>POTENTIAL</b>	<input type="checkbox"/> <b>ALLEGED</b>	



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION  
01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01  J DAMAGE TO FLOWS 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

*No damage observed, but potential exists*

01  K DAMAGE TO FAUNA 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

01  L CONTAMINATION OF FOOD CHAIN 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

01  M UNSTABLE CONTAINMENT OF WASTES 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
03 POPULATION POTENTIALLY AFFECTED \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01  N DAMAGE TO OFFSITE PROPERTY 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

01  O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

01  P ILLEGAL, UNAUTHORIZED DUMPING 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

V. SOURCES OF INFORMATION

AUTOMATIC COVER SHEET

DATE: SEP-12-94 MON 18:10

TO:

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FROM:

FAX #:

21 PAGES WERE SENT

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(INCLUDING THIS COVER PAGE)

