

PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. G05OH001824
LOWER TOLUENE TANKS
PLUM BROOK ORDNANCE WORKS
SANDUSKY, OHIO
SITE NO. G05OH001800
21 NOVEMBER 1998

PROJECT DESCRIPTION: The project area is the Lower Toluene Tanks. The former Plum Brook Ordnance Works (PBO) was utilized by the Department of Defense (DoD) from 1941 until 1945 for the manufacture of 2,4,6-trinitrotoluene (TNT), dinitrotoluene (DNT), and pentolite. During this period, DoD constructed and utilized six (6) toluene storage tanks for bulk storage of toluene that was used in the production of TNT. Each TNT production area (Areas A, B and C) had two (2) 200,000-gallon aboveground toluene storage tanks, referred to as the Upper, Middle and Lower Toluene Tank Areas, respectively.

PROJECT ELIGIBILITY: Records indicate that the toluene storage tanks were utilized by DoD for operation of the former PBO. The current property owner, NASA, reused the two toluene storage tanks at the Upper Toluene Tank Area (west of TNT Area A) for storage of heating oil. One of those tanks leaked approximately 185,000 gallons of fuel in 1989. Six to eight inches of contaminated soil and vegetation were removed and incinerated at a burning ground. The Middle Toluene Tanks are located northwest of TNT Area B and are currently empty. The Lower Toluene Tanks are located southeast of TNT Area C. NASA removed one tank and uses it for fuel oil storage at the Reactor Area. Based on past site activities, the toluene storage tank areas could contain toluene contamination.

POLICY CONSIDERATIONS: Current DoD policy dictates eligibility for remediation of DoD generated hazardous and toxic waste even though there was no evidence of a hazard when the property was transferred from DOD. Any toluene contamination present at the toluene storage tank areas would be from direct DoD use of the site.

PROPOSED PROJECT: An HTRW project is proposed which consists of the preparation of a Limited Site Investigation to determine if contamination exists. It is recommended that surface water and sediment be sampled and analyzed at the Lower Toluene Tank Area, and that soil be sampled and analyzed at all former toluene tank areas. The on-going site-wide groundwater investigation should be sufficient to determine if the toluene tanks have contaminated the groundwater. Further studies of the toluene storage tank areas will depend on the SI results.

EPA Form 2070-12: Attached.

DD Form 1391: Attached.

District POC: Nancy O. Stouffer, CELRH-DL-M, (304) 529-5035, is the Geographic District Project Manager, and Kevin L. Jasper, CELRL-DL-B, (502) 625-7015, is the Design District Project Manager, for the PBO site.

PN GOS04001824

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) <u>Rum Brook Orange Works</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
03 CITY <u>SANDISKY</u>	04 STATE <u>OH</u>	05 ZIP CODE	06 COUNTY <u>ERIE</u>
07 COUNTY CODE	08 CONG DIST <u>5</u>		
09 COORDINATES LATITUDE <u>41 21 49</u>		LONGITUDE <u>82 41 06</u>	
10 DIRECTIONS TO SITE (Starting from nearest public road) <u>I 80, NORTH 0.1 MILE ON RT 4, EAST 0.2 MILE ON RT 13. SITE NEAR BLOOMINGVILLE</u>			
III. RESPONSIBLE PARTIES			
01 OWNER (If known) <u>US Army Corps of Engineers</u>		02 STREET (Business, mailing, residential) <u>502 8TH STREET</u>	
03 CITY <u>HUNTINGTON</u>	04 STATE <u>WV</u>	05 ZIP CODE <u>25701</u>	06 TELEPHONE NUMBER <u>304 529-5160</u>
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)	
09 CITY		10 STATE	11 ZIP CODE
		12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one)			
<input type="checkbox"/> A. PRIVATE <input checked="" type="checkbox"/> B. FEDERAL: <u>NASA</u> <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input checked="" type="checkbox"/> F. OTHER: <u>FORMER DOD</u> <input type="checkbox"/> G. UNKNOWN <small>(Specify)</small>			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)			
<input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION		BY (Check all that apply)	
<input checked="" type="checkbox"/> YES DATE <u>2, 90</u> MONTH DAY YEAR <input type="checkbox"/> NO		<input type="checkbox"/> A. EPA <input checked="" 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>NASHVILLE CORPS</u> <small>(Specify)</small>	
		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		<u>1941</u> <u>1945</u> <small>BEGINNING YEAR ENDING YEAR</small>	
		<input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED			
<u>TO LUENE</u>			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION			
<u>SOIL AND GROUNDWATER CONTAMINATION</u>			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)			
<input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT <u>FRANK ALBERT</u>		02 OF (Agency/Organization) <u>HUNTINGTON DISTRICT CORPS</u>	
03 TELEPHONE NUMBER <u>304 529-5160</u>			
04 PERSON RESPONSIBLE FOR ASSESSMENT <u>SAME</u>		05 AGENCY	06 ORGANIZATION
		07 TELEPHONE NUMBER	
		08 DATE <u>11, 21, 98</u> <small>MONTH DAY YEAR</small>	

PN 905011001824



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: 2/90) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 E. DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: 5 ACRES (Acres) 04 NARRATIVE DESCRIPTION

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NO KNOWN USERS

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



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

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names) of species
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 M. UNSTABLE CONTAINMENT OF WASTES
(Soils/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

ALUM BROOK ORDINANCE WORKS
SITE MANAGEMENT PLAN
SEP 1995 ICF, INC.

1. COMPONENT ARMY	FY 1999 MILITARY CONSTRUCTION PROJECT DATA	2. DATE NOV 1998
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3. INSTALLATION AND LOCATION Plum Brook Ordnance Works Sandusky, Ohio	4. PROJECT TITLE DERP-FUDS HTRW - SI
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5. PROGRAM ELEMENT DERP-FUDS	6. CATEGORY CODE HTRW	7. PROJECT NUMBER G05OH001824	8. PROJECT COST (\$000) \$ 90.0
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9. COST ESTIMATES

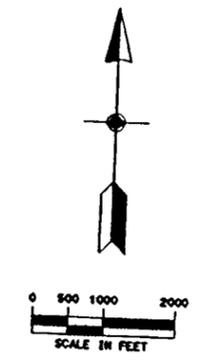
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
Prepare Limited Site Investigation by CELRL				\$ 80.0
Project Management by CELRH				<u>\$ 10.0</u>
TOTAL				\$ 90.0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Prepare a Limited Site Investigation Study on the subject Lower Toluene Tanks. Work will include:

1. Sampling and chemical analysis of soil and water samples
2. Preparation of a Limited Site Investigation Report and recommendation for the need for further investigation (RI/FS) of the Lower Toluene Tanks.

PLUM BROOK ORDNANCE WORKS
SANDUSKY, OHIO



LEGEND:

- STREAM
- RAILROAD
- PBS BOUNDARY FENCE
- AREA OF CONCERN
- MIS-LOCATED AOC (Sampled by M-K, 1994a)

Lower Toluene Tanks

ICI INTERNATIONAL CONSULTANTS, INC.

90504001824

FIGURE 1-2
LOCATIONS of AREAS of CONCERN (AOCs) at PBOW

DATE	12 JUL 95
PREPARED	JET
CHECKED	DBJ