

PROJECT SUMMARY SHEET
FOR
DERP-FUDS HTRW PROJECT NO. G05OH001816
TNT RAIL CAR LOADING AREAS
PLUM BROOK ORDNANCE WORKS
SANDUSKY, OHIO
SITE NO. G05OH001800
21 NOVEMBER 1998

PROJECT DESCRIPTION: The project areas are former TNT rail car loading areas. 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, TNT was loaded onto rail cars for shipment from the site and to on-site storage areas. The locations of these areas are unknown, and reference to them has not been found in site documents. Remnants of blast-protection walls adjacent to the abandoned rail tracks at TNT Area B suggest the possible location of a TNT rail car loading facility.

PROJECT ELIGIBILITY: Records indicate that TNT Areas A, B and C were utilized by DoD for the manufacture of TNT. These areas are likely to have had rail car loading facilities for the shipment of TNT within and outside of the former PBO site. Based on past site activities, nitroaromatics are likely contaminants of concern at the TNT rail car loading areas.

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 nitroaromatic contamination present at the TNT rail car loading areas would be from direct DoD use of the site.

PROPOSED PROJECT: An HTRW project is proposed. The project consists of the preparation of a Limited Site Investigation of the TNT rail car loading areas.

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.

ENCLOSURE

PH. GOSCH 001816

 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)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
Plum Brook Ordnance Works			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY
SANDUSKY	OH		ERIE
07 COUNTY CODE	08 CONG DIST		
	5		
09 COORDINATES LATITUDE		LONGITUDE	
41 22 41.1		82 4 15	
10 DIRECTIONS TO SITE (Starting from nearest public road)			
I 80, NORTH 0.1 MILE ON RT 4, EAST 0.2 MILE ON RT 13. SITE NEAR BLOOMINGVILLE			
III. RESPONSIBLE PARTIES			
01 OWNER (if known)		02 STREET (Business, mailing, residential)	
US Army Corps of Engineers		502 8th STREET	
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
HUNTINGTON	WV	25701	304 529-5760
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 USE</u> <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)			
<input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ___/___/___ <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 (c)) DATE RECEIVED: ___/___/___ <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</u> / <u>90</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>NASHVILLE CORPS</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		<u>1941</u> <u>1945</u> BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED			
TRINITROTOLUENE AND DERIVATIVES ACETONE, BARIUM, CHROMIUM MANGANESE			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION			
SOIL AND GROUNDWATER CONTAMINATION			
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		02 OF (Agency/Organization)	03 TELEPHONE NUMBER
FRANK ALBERT		HUNTINGTON DISTRICT CORPS ENGINEERS	304 529-5760
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION
SAME			
		07 TELEPHONE NUMBER	08 DATE
		()	11 21 98 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

<p>01 PHYSICAL STATES (Check all that apply)</p> <p>A SOLID B POWDER, FINES C SLUDGE D OTHER</p> <p>E SLURRY F LIQUID G GAS</p> <p>Specify</p>	<p>02 WASTE QUANTITY AT SITE</p> <p>Measures of waste quantities must be independent</p> <p>TONS CUBIC YARDS NO. OF DRUMS</p> <p>UNKNOWN</p>	<p>03 WASTE CHARACTERISTICS (Check all that apply)</p> <p>A TOXIC B CORROSIVE C RADIOACTIVE D PERSISTENT</p> <p>E SOLUBLE F INFECTIOUS G FLAMMABLE H IGNITABLE</p> <p>I HIGHLY VOLATILE J EXPLOSIVE K REACTIVE L INCOMPATIBLE M NOT APPLICABLE</p>
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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	PARAFFIN	10022-31-8	LAND	214,000	ppb
	CHROMIUM	7440-47-3	LAND	20,000	ppb
	1,3-DNB	99-65-0	LAND	6,400	ppb
	2,6-DNT	25321-14-6	LAND	1,200	ppb
	2,4-DNT	25321-14-6	LAND	20,000	ppb
	LEAD	7439-92-1	LAND	50,000	ppb
	MANGANESE	7439-96-5	LAND	2,600,000	ppb
	NITRATE		LAND	2,500,000	ppb
	NITROBENZENE	98-95-3	LAND	480	ppb
	NITROTOLUENE		LAND	480	ppb
	SODIUM	1310-73-2	LAND	3,420,000	ppb
	SULFATE		LAND	2,000,000	ppb
	1,3,5-TNB	118-96-7	LAND	15,000	ppb
	2,4,6-TNT	118-96-7	LAND	740	ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

FEB 1990 CONFIRMATION STUDY
NASHVILLE DISTRICT CORPS OF ENGINEERS
(MAX. CONCENTRATION SHOWN)

PA GOSOH 001816



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
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: 2/90)
04 NARRATIVE DESCRIPTION
 POTENTIAL ALLEGED

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: > 100
02 OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
 POTENTIAL ALLEGED

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

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

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

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: < 5 ACRES
(Acres)
02 OBSERVED (DATE: 2/90)
04 NARRATIVE DESCRIPTION
 POTENTIAL ALLEGED

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: > 100
02 OBSERVED (DATE: 2/90)
04 NARRATIVE DESCRIPTION
NO KNOWN USERS OF AFFECTED AQUIFER
 POTENTIAL ALLEGED

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

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



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
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: > 100

02 OBSERVED (DATE: 2/90) POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

SOIL CONTAMINATION DISCOVERED

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: > 100

IV. COMMENTS

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

CONFIRMATION STUDY FEB 1990
NASHVILLE DISTRICT CORPS OF ENGINEERS

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 G05OH001816	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				\$ 10.0
TOTAL				\$ 90.0

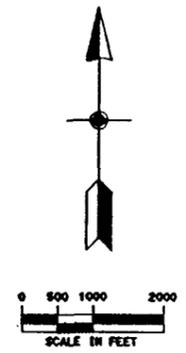
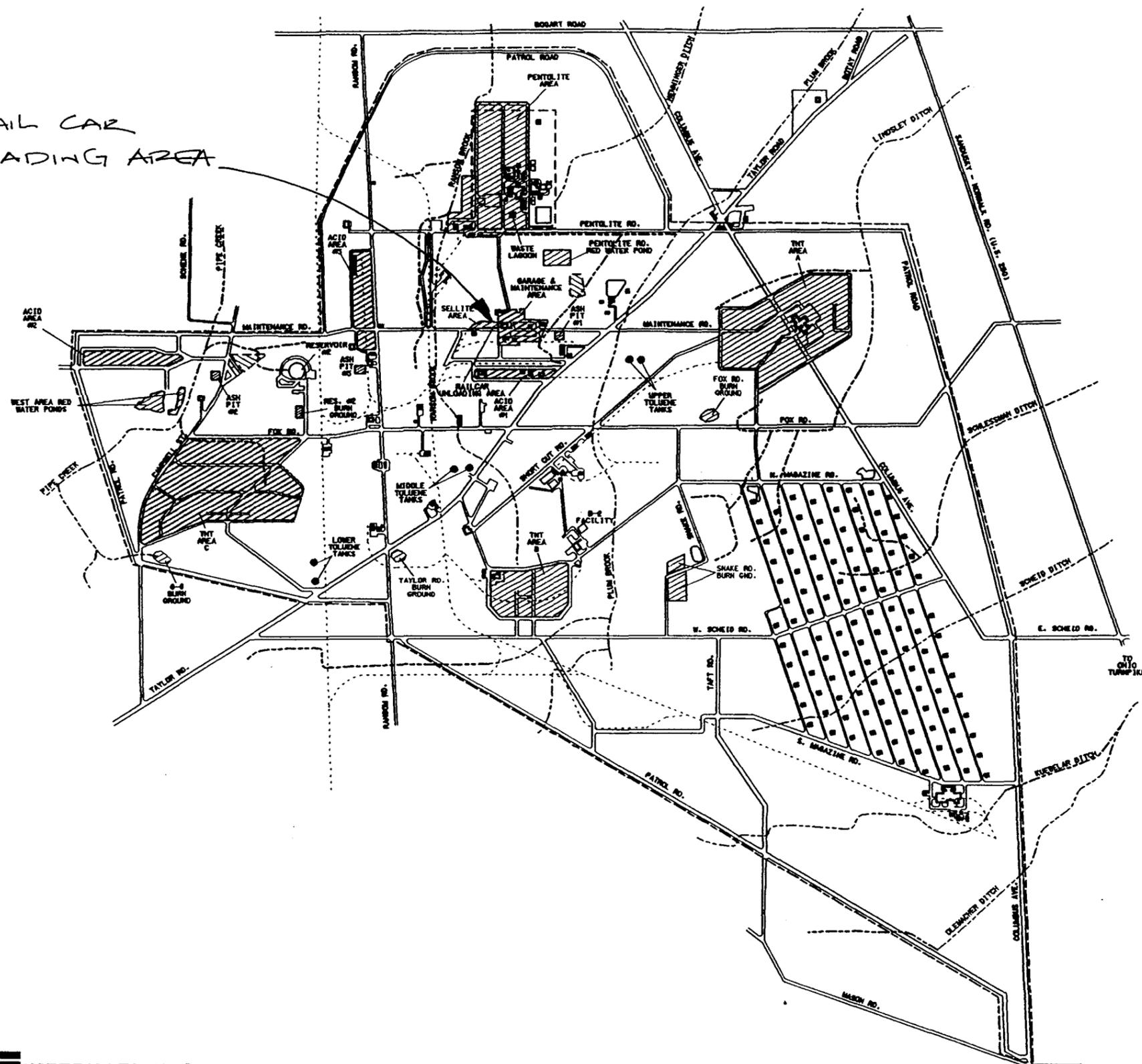
10. DESCRIPTION OF PROPOSED CONSTRUCTION

Prepare a Limited Site Investigation Study on the subject TNT Rail Car Loading Area. 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 TNT Rail Car Loading Area.

RAIL CAR
LOADING AREA

PLUM BROOK ORDNANCE WORKS
SANDUSKY, OHIO



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

ICI INTERNATIONAL
CONSULTANTS, INC.

GOSOH001816

FIGURE 1-2 LOCATIONS of AREAS of CONCERN (AOCs) at PBOW	DATE 12 JUL 95
	PREPARED JET
	CHECKED DBJ