

ER Record I.D.# 34564

ENVIRONMENTAL RESTORATION  
Records Processing Facility  
ER Record Index Form  
(Side 1 of 2)

DATE RECEIVED: 06/21/93 PROCESSOR: JMP

**Part I:** Complete all fields; indicate if not applicable or appropriate; please write legibly.

DOCUMENT TO: M. L. Brooks DOCUMENT DATE: 06/05/70  
ORIGINATOR NAME: Edward Wilder ORGANIZATION: GMX-3  
SYMBOL: GMX-3 PAGE COUNT: 7  
SUBJECT/TITLE: HE Sump Drainage Inspection, TA-11 and -16

**RECORD TYPE** (Circle relevant type for primary record; type of attachments should be selected on *Keywords List*):

Analytical Data  
Article  
Chain-of-Custody  
Chart  
Computer Output  
Contract  
Controlled Distribution  
Drawing

Excerpt  
FAX  
Figure  
Form  
Interview  
Letter  
List  
Logbook

Map  
Memo  
Microform  
Notebook  
Outline  
Personal Notes  
Photo

Plan  
Procedure  
Purchase Request  
Receipt Acknowledgment  
Report  
Review  
SOW

Study  
Summary  
Telephone Record  
TOC  
Transcription  
Video  
Work Plan  
Other \_\_\_\_\_

RECORD CATEGORY: P  
(P for Programmatic or R for Reference)

RECORD PACKAGE #: \_\_\_\_\_

RECORD FILMED (Y/N): Y

RECORD LOCATION: \_\_\_\_\_  
(Indicate location of record if not filmed.)

**Part II:** Complete all fields; indicate if not applicable or appropriate; please write legibly. Use *ER Record Index Form Attachment Sheet* if needed.

ATTACHMENTS FILMED (Y/N): \_\_\_\_\_  
(Were attachments to this record filmed?)

LOCATION: \_\_\_\_\_  
(Indicate location of attachments.)

**TECH AREA(S)**

**ADS NO(S)**

**WBS NO(S)**

**STRUCTURE NO(S)/MDA**

LIST RELEVANT TECH AREA(S).

LIST RELEVANT ADS NO(S).

LIST RELEVANT WBS NO(S).

LIST RELEVANT STRUCTURE NO(S)/MDA.

16  
11



3677

**Part III:** Complete all fields; indicate if not applicable or appropriate; please write legibly. Use *ER Record Index Form Attachment Sheet* if needed.

**PRS NO(S)**  
LIST RELEVANT PRS NO(S).

\_\_\_\_\_

**DOCUMENT TO**  
LIST MULTIPLE RECENTS.

\_\_\_\_\_

**ORIGINATOR NAMES**  
LIST MULTIPLE ORIGINATORS.

\_\_\_\_\_

**FILE FOLDER:** \_\_\_\_\_

**CORRECTION (Y/N):** \_\_\_\_\_  
(Is this a correction to a record previously processed?)

**CORRECTED #:** \_\_\_\_\_  
(If answer is Yes, please give ER Record # for corrected record.)

**CORRECTION DESCRIPTION (Optional):** \_\_\_\_\_

**SUPERCEDE:** \_\_\_\_\_ **REPLACE:** \_\_\_\_\_ **DELETE:** \_\_\_\_\_ **ADD:** \_\_\_\_\_ **REVISE:** \_\_\_\_\_

**ATTACHMENT LIST**

*na*



Magazine	Operation	Radioactive	Search	Telephone Record
Management	Order	Radiochemistry	Security	Test Area
Manhole	Organic	Radionuclide	Seep	Testing
Map	Organization	Radium	Seminar	TLD (Thermoluminescent Dosimeter)
Material	OSHA (Occupational Safety & Health Administration)	Rationale	Semivolatile	TOC (Table of Contents)
MDA (Material Disposal Area)	OU (Operable Unit)	RCHA (Resource, Conservation, and Recovery Act)	Septic	TON (Table of Contents)
Media	Outfall	Reactor	Sewer	Townsite
Meeting	Outline	Receipt	Shaft	Toxic
Memo	.....	Acknowledgment	Sheet	Tracking
Mercury	Pad	Recommendation	Shell	Training
Metal	PA/RFA (Preliminary Assessment /RCA Facility Assessment)	Reconnaissance	Shot	Transcription
Microform	PCB (Polychlorinated Biphenyl)	Records	Silver	Transfer
Minimization	Permit	Recovery	Site	Transformer
Minutes	Personal Notes	Recycle	Sludge	Transport
MIS (Management Information System)	Personnel	Reduction	Soil	Treatment
Mixed Waste	Personnel Qualification	Reference	Solid	Trench
MOA (Memo of Agreement)	Photo	Regulation	Solvent	Trip Report
Model	Pilot Study	Release	SOP (Standard Operating Procedure)	Tritium
Modification	Pipe	Remediation	SOW (Statement of Scope of Work)	TRU (Transuranic)
Money (Allocation, Appropriation, Budget, Cost, Funding, etc.)	Pit	Removal	Specific	TSCA (Toxic Substances Control Act)
Monitoring	Plant	Report	Spill	Tuballoy
Monthly Report	Plutonium	Request	Stack	Tuff
Mortar Impact Area	Pollution	Requirements	Standard	.....
MOU (Memo of Understanding)	Polonium	Research	Statistics	Underground
MSA (Major System Acquisition)	Polaroid	Resin Bed	Steamline	Uranium
.....	Potential	Resolution	Steel	Urine
NEPA (National Environmental Policy Act)	Presentation	Resource	Storage	USGS (United States Geological Survey)
NFA (No Further Action)	Prevention	Respirator	Strontium	UST (Underground Storage Tank)
Nitrate	Priority	Response	Structure	Utility
NMED (New Mexico Environment Department)	Procedure	Restoration	Study	.....
NMEID (New Mexico Environmental Improvement Division)	Program	Restriction	Subcontractor	Validation
NOD (Notice of Deficiency)	Programmatic Project	Results	Subsurface	Variance
Nonexplosive	Project Leader	Review	Summary	VE (Value Engineering)
Notebook	Propellant	Revision	Sump	Ventilation
Notification	Property	RFI/RI (RCRA Facility Investigation/Remedial Investigation)	Support	Verification
NPDES (National Pollutant Discharge Elimination System)	Proposal	Risk	Surface	Video
NRC (Nuclear Regulatory Commission)	Protection	RPF (Records Processing Facility)	Surveillance	Volatile
Nuclear	Protocol	.....	Survey	Volume
.....	PRR (Potential Release Site)	Safety	Swipe	.....
Observation	Public	Salvage	SWMU (Solid Waste Management Unit)	Warehouse
Off-gas	Pump	Sample	System	Waste
Oil	Purchase Request	Sampling Plan	Table	Water
Open	Quality	Sanitary	Tank	WBS (Work Breakdown Structure)
Open Burning	QA (Quality Assurance)	Satellite	Task	Weapon
.....	QP (Quality Procedure)	Schedule	TCLP (Toxicity Characteristic Leaching Procedure)	Well
	Quarterly Report	Scope	TDD (Technical Document Description)	Work
	.....	Scrap	Technical	Working Group
		Scrap Detonation Site	Technical Team	.....
		Screening	Technology	Zinc
		Scrubber		

*Ken* *(1)*  
**OFFICE MEMORANDUM**

**TO : M. L. Brooks**

**DATE: June 5, 1970**

**FROM : Edward Wilder**

**SUBJECT: HE SUMP DRAINAGE INSPECTION, TA-11 AND -16**

**SYMBOL: GMX-3**

- References :** (a) Group GMX-3 Safety Committee Meeting March 9, 1970, Report, dated April 3, 1970  
(b) Speed Letter to M. L. Brooks from Edward Wilder, dated April 21, 1970, subject "Sump Drainage Inspection Team"

The Sump Drainage Inspection Team as designated in reference (b) conducted an inspection of the TA-11 and -16 HE sump drainage outlets on April 29, 1970. The findings are discussed below. Inspection samples of soil in some drainage areas were taken by J. F. Baytos. The soil analysis for HE is attached.

Building TA-16-460

Location of sump - one on the northwest corner of building  
Location of outlet - in the ditch southeast of building  
Use of HE in building - low  
Probability of HE in drain - very low  
Condition of outlet - heavy cattail growth, no visible HE  
Recommendation - none

Building TA-16-430

Location of sump - three on south side of building  
Location of outlet - one on south side of building, each sump has its own outlet  
Use of HE in building - high  
Probability of HE in drain - low *15% HAZ, 12% NT*  
Condition of outlet - heavy cattail growth in drainage ditch  
Recommendations - none

Received by ER-RPF

JUN 21 1970

*JRP*

Building TA-16-410

Location of sump - one on southeast corner of building  
Location of outlet - southeast of building on side of canyon  
Use of HE in building - high  
Probability of HE in drain - low  
Condition of outlet - open  
Recommendations - none

Building TA-16-360

Location of sump - one on southeast side of building  
Location of outlet - on southeast side of parking area  
Use of HE in building - low  
Probability of HE in drain - very low  
Condition of outlet - stopped up  
Recommendations - open up outlet

Building TA-16-340

Location of sump - one at southeast corner of building  
Location of outlet - southeast of building  
Use of HE in building - very high  
Probability of HE in drain - moderate  
Condition of outlet - open      104% HMX, 01% TNT  
Recommendations - none

Building TA-16-300

Location of sump - two on north side of building  
Location of outlet - see Note 1  
Use of HE in building - no HE used at present  
Probability of HE in outlet - low  
Condition of outlet - see Note 1  
Recommendations - none

Building TA-16-302

Location of sump - two on northeast side of building  
Location of outlet - see Note 1  
Use of HE in building - very high  
Probability of HE in outlet - low  
Condition of outlet - see Note 1  
Recommendations - none

Building TA-16-304

Location of sumps - two northeast of building  
Location of outlet - see Note 1  
Use of HE in building - none  
Probability of HE in outlet - low  
Condition of outlet - see Note 1  
Recommendations - none

Building TA-16-306

Location of sumps - two northeast of building  
Location of outlet - see Note 1  
Use of HE in building - none  
Probability of HE in outlet - low  
Condition of outlet - see Note 1  
Recommendations - none

NOTE 1

Buildings 300, 302, 304, and 306 - These buildings have a common drain line from the sumps to daylight in a ditch at grid W-23; 3-49. This is southeast of Building 306 and east of the road. This drain line is about 15 feet deep and runs on the east side of the building between the building and the road. It carries the basement drain water also.

All four of these buildings are listed here because at some time in the past they were used for processing HE. *0.2 MM 0.9 TNT*

Building TA-16-307

Location of sump - two south side of building  
Location of outlet - northeast of building  
Use of HE in building - low  
Probability of HE in outlet - nil  
Condition of outlet - open *0.7 MM, 1 TNT*  
Recommendations - outlet should be opened more

Note: HE was used here approximately 10 years ago

June 5, 1970

Building TA-16-305

Location of sump - two southwest side of building  
Location of outlet - in road side ditch southwest of building  
Use of HE in building - none  
Probability of HE in outlet - nil  
Condition of outlet - open  
Recommendations - none

0.0 HMX / 0.0 TNT

Note: HE was used here approximately 10 years ago

Building TA-16-303

Location of sump - two southwest side of building  
Location of outlet - road side ditch southwest side of building  
Use of HE in building - HE in boxes, unopened  
Probability of HE in outlet - low  
Condition of outlet - partially stopped up  
Recommendations - outlet should be dug out

.02 HMX, .00 TNT

Building TA-16-301

Location of sump - two southwest side of building  
Location of outlet - road side ditch south side of building  
Use of HE in building - high  
Probability of HE in outlet - moderate  
Condition of outlet - partially plugged  
Recommendations - outlet should be opened

.8 HMX .3 TNT

Building TA-16-340

Location of sump - north side of building  
Location of outlet - northeast of east end of building  
Use of HE in building - moderate  
Probability of HE in outlet - low  
Condition of outlet - open  
Recommendations - none

.1 HMX .5 TNT



Building TA-16-342

Location of sump - north side of building  
Location of outlet - north of west end of building  
Use of HE in building - high, but intermittent  
Probability of HE in outlet - low  
Condition of outlet - open  
Recommendations - none

Building TA-16-345

Location of sump - south of building  
Location of outlet - south of building in road side ditch  
Use of HE in building - in containers  
Probability of HE in outlet - nil  
Condition of outlet - open  
Recommendations - none

Building TA-16-478

Location of sump - southeast corner of building  
Location of outlet - northeast of building on canyon side  
Use of HE in building - high, intermittent  
Probability of HE in outlet - high, intermittent 3.8  $\mu\text{M}$ , 0.0 TNT  
Condition of outlet - completely covered with dirt, exact location unknown  
Recommendations - expose outlet pipe and do necessary work so that it will stay open

Building TA-16-260

Location of sump - on east side of building  
Location of outlet - common from all sumps, east of building  
Use of HE in building - very high  
Probability of HE in drain - very high  
Condition of outlet - open in small canyon  
Recommendations - none

The inspection team followed the drainage water to the edge of Valle Canyon, a distance of about 500 feet. For the first 250 feet there was, in the stream bed, a foreign material that might be HE. There was none of the material in the last 250 feet. Five samples of the stream bed mud were taken at different points.

7.0% HE in mud  
24.2  
4.9  
13.0

June 5, 1970

It appears, based on observations of this drainage for a number of years, that the amount of visible material which may be HE, is much less now than it was in the past.

Note: The small sump on the south end of Building 260 was inspected and found to be clean. At one time this was used in connection with the patching of Comp. B castings.

Building TA-16-265

Location of sump - northwest corner of building  
Location of outlet - northwest corner of building  
Use of HE in building - high  
Probability of HE in drain - nil  
Condition of outlet - open  
Recommendations - none

Note: This sump serves the janitor sink in this building

Building TA-16-267

Location of sump - southeast corner of building  
Location of outlet - southeast corner of building  
Use of HE in building - high  
Probability of HE in drain - nil  
Condition of outlet - open  
Recommendations - none

Note: This sump serves the janitor sink in this building

Building TA-16-280

Location of sump - one on west side near main door of building  
Location of outlet - back side of building near Manhole TA-16-902  
Use of HE in building - high  
Probability of HE in drain - nil  
Condition of outlet - the outlet of the sump first daylights in a surface drain which is 6 feet deep. This combined drain daylights about 200 feet northeast of the building in a shallow ditch.  
Recommendations - none

June 5, 1970

**TA-11 Drop Tower**

Location of sump - on east side of concrete pad  
Location of outlet - on east side of sump  
Use of HE - high  
Probability of HE in drain - see below  
Condition of outlet - see below  
Recommendations - see below

We believe that the sump is effective in separating HE from water if the inlet is kept clean. However, about 50% of the total paved area around the drop tower does not direct its drainage water to this sump. Under this condition, it is useless to worry about the operation of the existing sump. An ENG Lab Job (ES-1207) is being written for the installation of sumps to capture all of the run off from the paved areas.

Building TA-16-400

Location of sump - on south side of building  
Location of outlet - on east side of building  
Use of HE in building - low  
Probability of HE in drain - low     01 MAY 68 TNT  
Condition of outlet - open  
Recommendations - none

*Edward Wilder*  
Edward Wilder

EW:tc

Attachment: Soil Analysis for HE

cc: H. E. Ballance  
H. B. Fletcher  
W. C. Courtright  
T. B. Harris  
J. F. Baytes  
E. L. Hilton  
V. L. Rapar  
CMK-3 Safety Committee File  
CMK-3 Reading File  
File