



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 377TH AIR BASE WING (AFMC)

ENTERED

AUG 11 1993

FROM: 377 ABW/EM  
2000 Wyoming Blvd SE  
Kirtland AFB NM 87117-5659

SUBJ: Public Notice No. 93-1

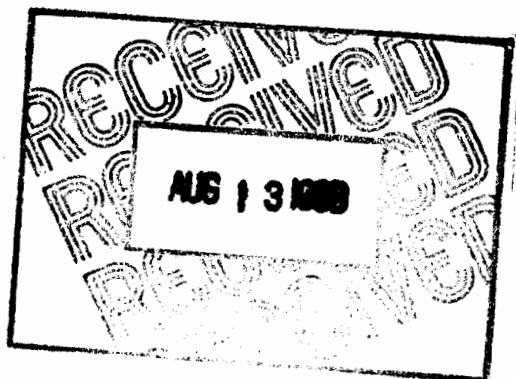
TO: Membership, Bernalillo County/KAFB Environmental Working Group

1. The attached public notice is forwarded for your information. The hearing on this matter is currently scheduled for 20 Aug 93, 1 p.m. to 4 p.m., in the BDM auditorium.

2. If you have any questions, please contact the undersigned, 846-2773/0053.

HARRY M. DAVIDSON  
Chief, Special Projects Branch  
Environmental Management Division

1 Atch  
Public Notice



KAFB1323



LEGAL NOTICE

377th AIR BASE WING  
ENVIRONMENTAL MANAGEMENT DIVISION  
(377 ABW/EM)  
2000 WYOMING BLVD SE  
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117-5659

Public Notice No 93-1

August 1993

NOTICE OF REQUEST FOR A CLASS III MODIFICATION  
TO THE HAZARDOUS WASTE PERMIT PART B FOR  
KIRTLAND AIR FORCE BASE (95700Z4423)

1. The 377 ABW requests the following modifications:
  - a. Delete from Appendix I solid waste management units (SWMUs):
    - 6-8 Landfill C
    - 10-4 Underground Storage Tank T-02413
    - 10-5 Underground Storage Tank T-02412
  - b. Delete from Appendix II:
    - 6-A Radioactive Burial Sites
      - RB-4
      - RB-5
      - RB-6
      - RB-8
      - RB-9
    - 6-C Mining Shafts
      - RW-48 MS-4
      - RW-49 MS-5
      - RW-50 MS-6
  - c. Delete from Appendix III:
    - 6-B Dirt Mounds
      - WP-53
      - WP-54
      - WP-55
    - 6-E Rocket Impact Zone
  - d. Add to Appendix II:
    - 6-16 Manzano Fire Training Pit FT-14


e. Add to Appendix III:

- ST-273, Septic Tank, Bldg 618 (north)
- ST-338, Horizontal Dipole Drum Rack
- ST-337, US Corps of Eng Vehicle Maint Yard, Bldg 20212
- WP-339, Contract Yard W of Bldg 20423
- ST-340, Septic Tank, Bldg 57011
- ST-341, Condensate Tank, Bldg 1032

2. The text for this request for a Class III modification consists of:

- a. Extracts from KAFB's Hazardous Waste Permit Part B (Atch 1).
- b. Descriptions of the solid waste management units (SWMUs) to be deleted (Atch 2-5).
- c. Descriptions of SWMUs to be added to the permit (Atch 6-12).

3. The 31-page text of the list consists of requested changes, extracts from KAFB's Permit Part B (Atch 1) and description of the new SWMUs (Atch 2-12). The request may be reviewed at the KAFB Library, Bldg 20204, Kirtland AFB NM 87117-5659 or the Environmental Protection Agency Library, 1445 Ross Avenue, Dallas TX. To obtain a copy of this request or any part thereof (at 35 cents per page), contact Mr Harry Davidson, 377 ABW/EM, 2000 Wyoming Blvd SE, Kirtland AFB NM 87117-5659, (505) 846-2773.

  
THOMAS A. NORRIS, Colonel, USAF  
Director  
Environmental Management Division

- 12 Atch
- 1. Extracts--KAFB's Hazardous Waste Permit Part B
- 2. Descriptions of the SWMUs
- 3. Radioactive Holding Tanks
- 4. USTs 10-4 and 10-5
- 5. LF-C, RW-48 thru 50 and WP-53 thru 55, Rocket Impact Zone
- 6. Manzano Fire Trng Pit FT-14
- 7. Horizontal Dipole Drum Rack
- 8. ST-273
- 9. ST-337
- 10. ST-339
- 11. ST-340
- 12. ST-341

APPENDIX I

<u>EPA</u> <u>SWMU #</u>	<u>IRP Site</u> <u>Code</u>	<u>Unit Description</u>
6-1	LF-01	Landfill 1
6-2	LF-02	Landfill 2
6-3	RW-03	Landfill 3
6-4	RW-04	Landfill 4
6-5	RW-04	Landfill 6
6-6	RW-06	Landfill A
6-7	LF-07	Landfill B
6-8	LF-08	Landfill C
6-10	LF-09	Abandoned Landfill
6-16	FT-13	Kirtland Fire Control Training Area
6-17	FT-39	Two Drains at Kirtland Fire Control Trng Area
6-19	OT-29	Detonation Pit EOD Range
6-24	WP-16	Manzano Sludge Drying Beds
6-25	WP-40	Manzano Sewage Overflow Lagoon 1
6-26	WP-41	Manzano Sewage Overflow Lagoon 2
6-27	WP-42	Manzano Sewage Overflow Lagoon 3
6-28	WP-43	Manzano Sewage Overflow Lagoon 4
6-29	LF-20	Manzano Dump
6-30	RW-06	Radioactive Burial Site #11
6-31	OT-28	McCormick Range/Ranch
8-35	N/A	Waste Oil Storage Tank 20375
10-3	N/A	Bldg 20205, Tank T-20215; AAFES Service Station
10-4	N/A	Bldg 1016, Tank T-02413
10-5	N/A	Bldg 1016, Tank T-02412

APPENDIX II

<u>EPA</u> <u>SWMUs</u>	<u>IRP Site</u> <u>CODE</u>	<u>Unit Description</u>
6-11	LF-44	Fill Area Southeast of Kirtland Sewer Lagoons
6-15	LF-45	Unnamed Dump
6-22	OT-46	Lake Christian
8-5	N/A	Oil/Water Separator B-482
8-6	WP-47	Silver Recovery Unit
8-13	N/A	Bldg 1001 and 1002, Oil/Water Separator
8-26	N/A	Building 1063, Oil/Water Separator
8-28	N/A	Bldg 20338, Oil/Water Separator
8-29	N/A	Bldg 20344, Oil/Water Separator
8-31	N/A	Bldg 20348, Oil/Water Separator
8-47	N/A	Bldg 20423, Oil/Water Separator
8-55	WP-38	Bldg 20687, CE Wash Rack Drain Field/French Drain (Buried Gravel Trench)
9-14	N/A	Bldg 617, Piping Trench
9-15	N/A	Bldg 617, Dilution Pit
9-16	N/A	Bldg 617, Dilution Pond
10-7	N/A	10-20, Oil/Water Separators
<u>AOC</u>		<u>Unit</u>
6-A	RW-03	Radioactive Burial Sites--RB-4 through RB-6, RBs-8 and 9
6-C	RW-48	Mine Shafts MS-4, MS-5, MS-6

APPENDIX III

<u>EPA</u> <u>SWMU #</u>	<u>IRP Site</u> <u>Code</u>	<u>Unit Description</u>
6-14	ST-51	Treated Sewage Effluent Transmission Line
6-18	FT-52	Jet Engine Burn Area Near Fire Control Training Area
8-41	N/A	Bldg 20423, Waste Battery Storage Area
8-49	N/A	Bldg 20427, Fuel Shop Battery Storage Area
8-58	N/A	Bldg 57007, Battery Storage Area
9-4	N/A	Bldg 617, Waste Accumulation Area
9-20	N/A	Bldg 909, Inactive Waste Accumulation Area
10-1	N/A	Sanitary Sewer System
10-2	N/A	Storm Sewer System
	ST-218	Corrosion Control Shop, Bldg 482 (Sand trap to drain field)
	ST-325	Paint Shop, Bldg 1001, Storm Drain
	ST-220	Plating and Anodizing, Bldg 1001, Storm Drain
	ST-329	Propulsion Branch, Bldg 336, Grease Trap to Storm Sewer
	ST-336	Jet Engine Test Cell, Bldg 702, Washdown to Drainage Ditch
	ST-286	H-3/H-53 Phase Dock, Bldg 1000, Storm Sewer
	ST-331	C-130 Maintenance Shop, Bldg 1009, Storm Sewer
	WP-335	Paint Shop, Bldg 20681, Sanitary Sewer
	ST-221	Line Division, Bldg 1002, Oil/Water Separator to Storm Sewer
10-21	N/A	10-53, Septic Tank System
8-53	N/A	Bldg 20681 (Paint Shop). rockbed next to the shop WP-335
<u>AOC</u>		<u>Unit</u>
6-B	WP-53	Dirt Mounds
6-E	N/A	Rocket Impact Zone

Description of SWMUs  
To Be Removed from Appendices

6.A Radioactive Burial (RB) sites contain low-level radioactive wastes and may contain mixed wastes. Most of the records for these sites have been destroyed, particularly those operated before regulation. No photos were taken of these sites.

RB 4,5,6,8,9 Referred to as RBs, these are, in fact, underground liquid emergency holding tanks. Five tanks--three 1,000-gallon capacity and two 10,000-gallon capacity units--are located throughout the Manzano area. There are no records of use prior to 1963. According to Sgts Freese and Swigcord, the tanks are unused. The tanks are in a controlled-access area, fenced, and have warning signs posted around them.

Underground Storage Tanks (USTs)/Solid Waste Management Units (SWMUs) 10-4 and 10-5. UST/SWMU 10-4, Building 1016, Tank T-02413, and UST/SWMU 10-5, Building 10-16, Tank T-02412, are product tanks, not waste tanks (Atch 4-1, 4-2). They are being inspected under the New Mexico UST Regulation NMEIB/USTR-1/14; therefore, these tanks should not be SWMUs. KAFB requests these USTs be removed from Appendix I.

6-8 Landfill-C. This unit was an open dump for scrap packing crates and other refuse generated by a test facility. Some other trash has been deposited in the same area. Some of the miscellaneous refuse is of recent projects. The unit has no records of its start or closed dates. Estimated time frame is 1954-60.

The unit is located adjacent to a small, widely dispersed arroyo. Some debris is in the stream bed. This unit was created by a test program of Sandia National Laboratory (SNL). It is also on SNL's RCRA Part-B SWMU list as site 8 "Open Dump". By agreement SNL, will investigate and remediate the site.

6.B. Mounds. There are six dirt mounds (DMs) which may contain low-level radioactive waste: DMs 1-3 are located approximately two miles south of the Manzano area; DMs 4-6 are located approximately two miles east of the Manzano area. According to a site visit team member, low-level wastes (such as chemical wipes) were disposed of by the Sandia National Laboratory to DMs 1-3.

6.C. Mine Shafts (MS). Six MSs, two horizontal and four vertical, may possibly contain low-level radioactive wastes. Located on the former Sandia Base, two are five miles southeast of the Manzano area and four are two to three miles east of the Manzano area. The types of radioactive waste potentially stored here could not be determined.

6.E. Rocket Impact Zone. This unit is the result of test fire rockets during the 1950s. The site is one to three acres in size and has debris scattered throughout the zone. There are no present release controls though the potential release to soil is low and no evidence of release was observed during the VSI. This facility is the responsibility of SNL as SWMU "Site 58-Coyote Canyon Blast Area", Atch 5-9. Therefore, KAFB requests that Site 6-E be deleted from Appendix III.

KAFB requests their units be removed from Appendix II and Appendix III, respectively.

Item 6-A, Radioactive Holding Tanks (RB-4, RB-5, RB-6, RB-8, RB-9). These underground storage tanks (USTs) were built to provide a holding facility to wash down radioactive material into the tank in case a decontamination action at these work sites became necessary. Interviews with former employees at Manzano Base indicate these units were never used for their intended purpose. A letter from the 898th Aviation Depot squadron commander attesting to their status of nonuse is at Atch 3-2.

The 377 ABW/SGPB Bioenvironmental Engineers Group have taken radioactive measurement; no readings above natural background have been detected. Therefore, there is no reason to investigate these units.

The location of these units is as presented in the "Preliminary Review/ Visual Site Inspection (PR/VSI)" as conducted by the Kearney/Centaur Company under Contract No. 68-01-7374, August 1988. Additional pages describing these units are from the "Installation Restoration Program, Phase I, Records Search, Hazardous Materials Disposal Sites, KAFB NM (IRP Phase I-RS, HM DS-KAFB NM)" conducted by Engineering-Science under Contract No. FO 8637-80-G-0009, November 1981.

KAFB requests that these units be removed from Appendix II.





DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 1606TH AIR BASE WING (MAC)
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117-5000

25 APR 1991

Ms Judith M. Espinosa
Secretary, New Mexico Environmental Department
P. O. Box 26110
Santa Fe, New Mexico 87502

Dear Ms Espinosa

When Manzano Base was built in 1949, the facility included seven Underground Storage Tanks (USTs) referred to as radioactive burial sites. These were to be used to hold the material and water generated by a wash-down of work sites after an accident. The attached table (Atch 1) indicates the Kirtland Air Force Base (KAFB) designation and the concurrent Solid Waste Management Unit (SWMU) designation was generated by the United States Environmental Protection Agency. The KAFB Installation Restoration Program (IRP), Phase I refers to these units by the RB numbers. The Part B Permit now uses the RW numbers.

Under the terms of KAFB's Resource Conservation and Recovery Act (RCRA) Part-B Permit, these units were to be investigated to determine if hazardous wastes had been disposed in these tanks.

An investigation starting in 1981 under the USAF's IRP (Phase I) determined that these units had not been used (Atch 2). Additional interviews with former Manzano Base personnel have been conducted; they concur with the 1981 findings (Atch 3).

Therefore, it is the statement of the current 3098th Aviation Depot Squadron Commanding Officer, Lieutenant Colonel David A. Newburg, USAF, that these units have not been used for the disposal of chemical or radioactive material.

Additional examination of the interior of these tanks has been conducted by the 1606 ABW/SCPR Bioenvironmental Engineer. No radioactivity above background levels has been found.

Therefore, I certify to the best of my knowledge that these USTs have never been used for their intended purpose.

Signature of David A. Newburg
DAVID A. NEWBURG, Lt Col, USAF
Commander
3098th Aviation Depot Squadron

- 3 Atch
1. Table A-1
2. IRP Statement
3. MFR (Former Base Officials)

STATE OF NEW MEXICO )
) ss
COUNTY OF BERNALILLO )

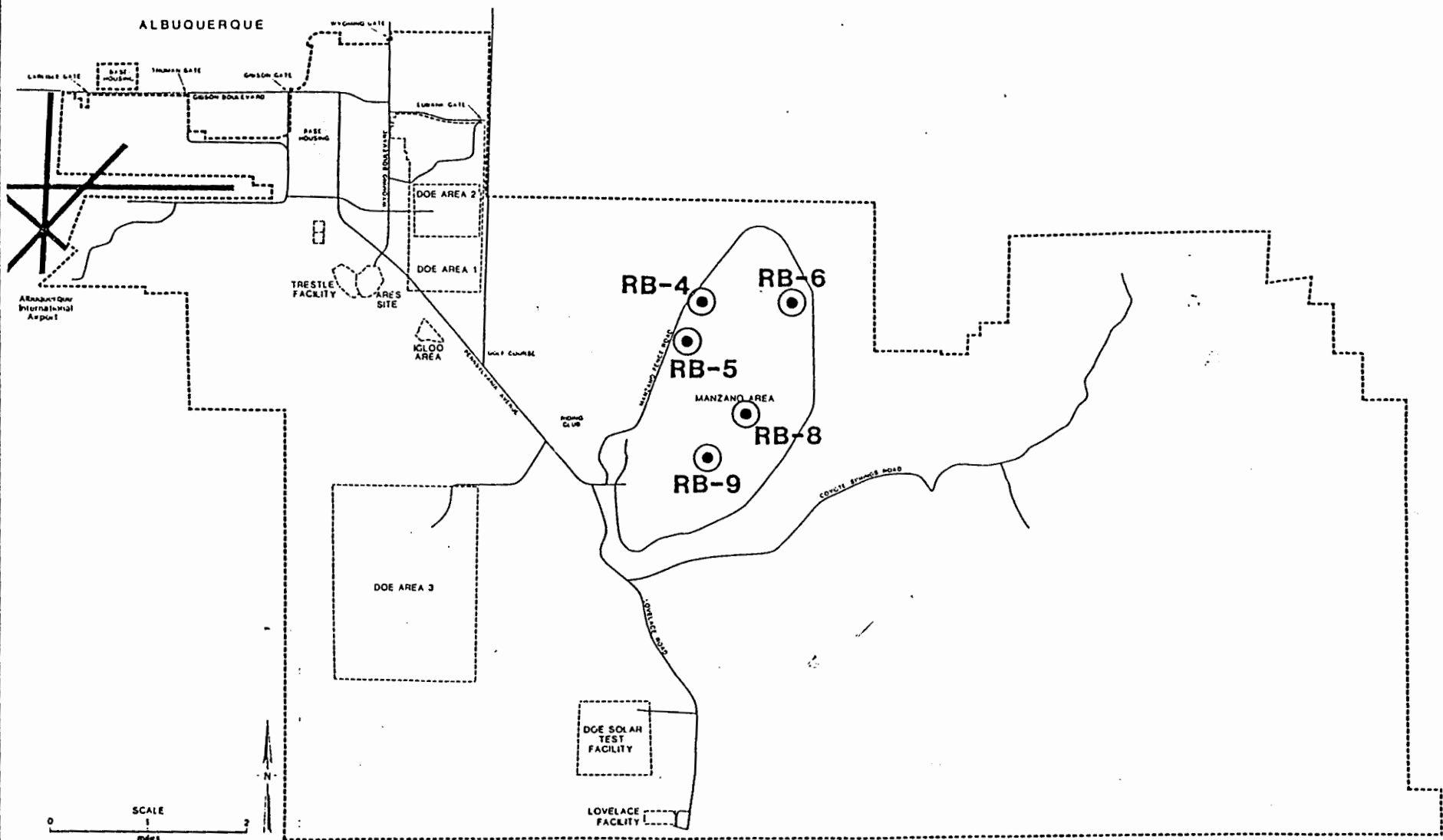
cc: 1606 ABW/EM w/Atch

SUBSCRIBED AND SWORN to before me by DAVID A. NEWBURG this 25th day of April 1991

Signature of Notary Public

# KIRTLAND AFB

## LOCATION OF RADIOACTIVE LIQUID EMERGENCY HOLDING TANKS



SOURCE: KIRTLAND AFB DOCUMENTS

FIGURE 4.15

Atch 3

4-60

ES ENGINEERING - SCIENCE

Underground Storage Tanks (USTs)/Solid Waste Management Units (SWMUs) 10-4 and 10-5. The UST/SWMU 10-4, Building 1016, Tank T-02413, and UST/SWMU 10-5 Building 1016 Tank T-02412 are product tanks, not waste tanks (Atch 4-1, 4-2). They are being inspected under the New Mexico UST Regulation NMEIB/USTR-1/14; therefore, these tanks should not be SWMUs. KAFB requests these USTs be removed from Appendix I.

BUILDING #: 1016

UNIT #, NAME: SWMU #10-4, Tank T-02413

UNIT DESCRIPTION AND OPERATION INFORMATION

Unit Type: Underground tank.

Purpose of Unit: Storage of waste JP-4 fuel.

Period(s) of Operation: 1969-present

Unit Design and Description: The unit is an underground 10,000-gallon steel tank with no internal or external containment provided. Piping to the tank is reportedly constructed of bare steel. No information was provided by facility representatives on the structural integrity of the unit or the source of the wastes.

Unit Location Information: The unit is located approximately 200 yards southwest of Bldg 1016 and adjacent to Tank T-02412 (SWMU #10-5).

WASTE MANAGEMENT INFORMATION

<u>Waste</u>	<u>Volume</u>	<u>Time Period</u>	<u>Source</u>	<u>Disposition</u>
JP-4 fuel	10,000 gal	As needed	KAFB	DRMO

Further Details: No further details were available.

Release Controls: There are no release controls for this unit.

Release History: There is no past history of release reported for this unit.

Noted in VSI: This unit was not observed due to its below-grade location.

RELEASE POTENTIAL:

Soil/Ground Water: The release potential to soil/ground water depends on the integrity of the system. Based on age and lack of release controls, the release potential is high.

Surface Water: The release potential to surface water is low due to remoteness of perennial surface water.

Air: The release potential to air is low due to the underground location of the unit.

Subsurface Gas Generation: The potential for subsurface gas generation depends on the integrity of the system. Due to the age of the tank, the nature of the waste and lack of release controls, the potential for subsurface gas generation is moderate.

Photographs: None

Reference: 9

BUILDING #: 1016

UNIT #, NAME: SWMU #10-5, Tank T-02412

Unit Description and Operation Information

Unit Type: Tank.

Purpose of Unit: Storage of used JP-4.

Period(s) of Operation: 1969-present.

Unit Design and Description: The unit is an underground 10,000-gallon steel tank with no internal or external containment provided. Piping to the tank is reportedly constructed of bare steel. No information was provided by facility representatives on the structural integrity of the unit.

Unit Location Information: The unit is located 200 yards southwest of Building 1016, adjacent to Tank T-02413 SWMU #10-4.

WASTE MANAGEMENT INFORMATION

<u>Waste</u>	<u>Volume</u>	<u>Time Period</u>	<u>Source</u>	<u>Disposition</u>
Used oil	10,000 gals	As necessary	KAFB	Mesa Oil

Further Details: There is no further waste management information for this unit.

Release Controls: There are no release controls for this unit.

Release History: There is no history of release reported for this unit.

Noted in VSI: This unit was not observed due to its below-grade location.

RELEASE POTENTIAL:

Soil/Ground Water: The release potential to soil/ground water depends on the integrity of the system. Due to the age of the tank and the lack of release controls, the release potential is high.

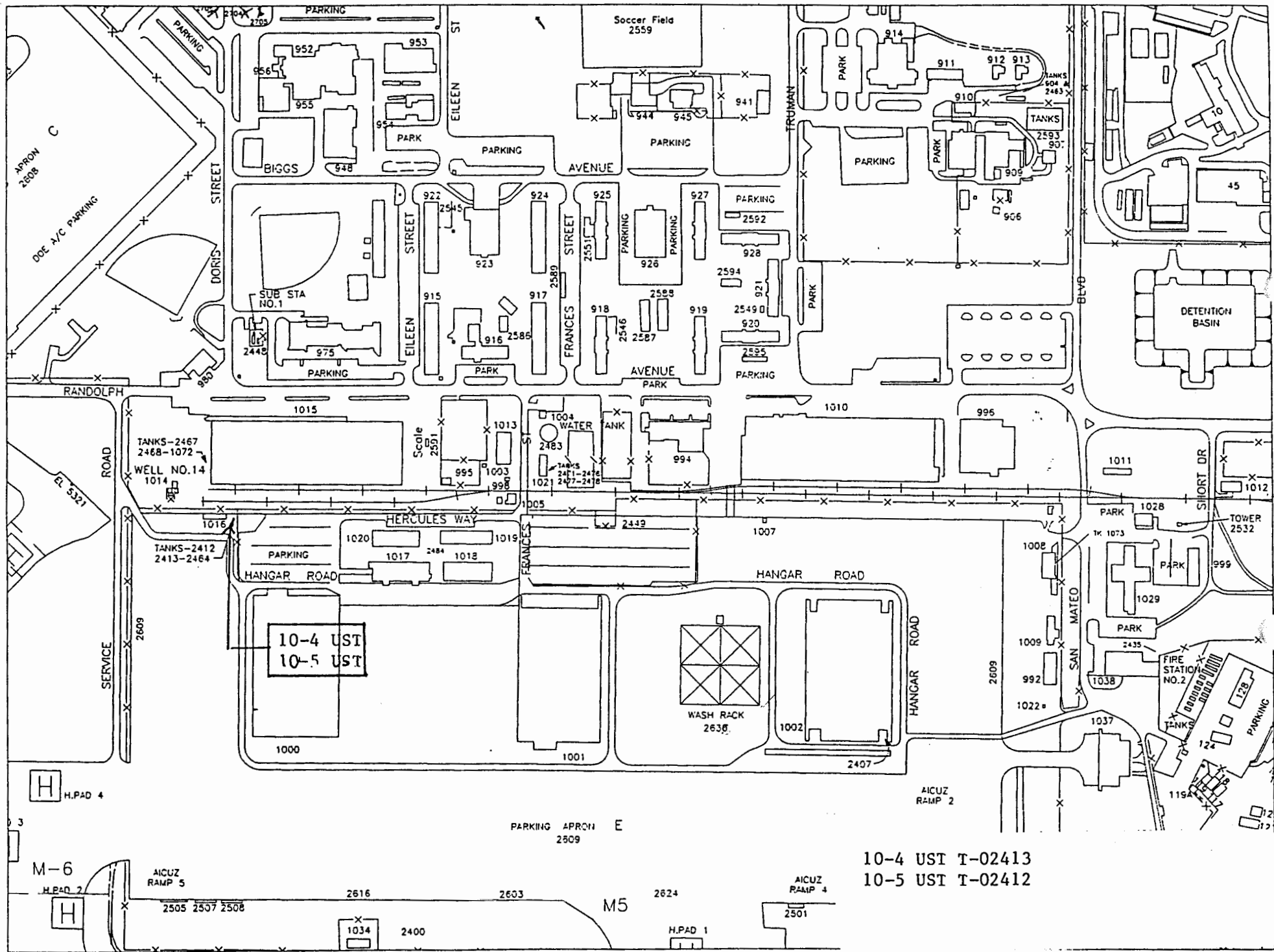
Surface Water: The release potential to surface water is low due to the underground location of the unit.

Air: The release potential to air is low due to the underground location of the unit.

Subsurface Gas Generation: The potential for subsurface gas generation depends on the integrity of the system and the waste managed. Due to the age of the tank and the lack of release controls, the potential for subsurface gas generation is moderate.

Photographs: None

Reference: 9, 82



Atch 4

10-4 UST T-02413  
 10-5 UST T-02412

Landfill C, Mine Shafts 1, 2, 3; Dirt Mound 1, 2, 3; Rocket Impact Zone.

1. The Kearney Preliminary Review/Visual Site Inspection (VSI) listed SWMUs which are, in fact, the responsibility of the Department of Energy (DOE) and their contractor, Sandia National Laboratories (SNL). The following sites, controlled and operated by DOE and their contractor, were included in KAFB's IRP Appendix II and III, and should not have been addressed.

2. Remove from Appendix I:

<u>EPA #</u>	<u>KAFB</u>	<u>Title</u>
6-8	LF-22	Landfill C

3. Remove from Appendix II:

6-C	RW-48	Mine shaft MS-4
	RW-49	Mine shaft MS-5
	RW-50	Mine shaft MS-6

4. Remove from Appendix III:

6-B	WP-53	Dirt Mound-1
	WP-54	Dirt Mound-2
	WP-55	Dirt Mound-3
6-E	ST-328	Rocket Impact Zone

Kirtland requests these SWMUs be removed as noted.

UNIT #, NAME: SWMU #6-8, Landfill C

UNIT DESCRIPTION AND OPERATION INFORMATION

Unit Type: Landfill

Purpose of Unit: Disposal of general refuse

Period(s) of Operation: The unit appears to be active; its start-up date is unknown.

Unit Design and Description: The unit is an unlined landfill approximately one acre in size (1981 estimate). The geological setting consists of thin terrace and sediment. The unit reportedly operated as a surface landfill with open burning. The facility representative could not provide dimensions of the unit during the VSI, and the boundaries of the unit were not evident.

Unit Location Information: The unit is located in the central part of the base, east of the Manzano Base as shown as Exhibit 6.2. It is approximately one mile from domestic monitoring well 29070. The unit may lie within the recharge areas for the Santa Fe Formation aquifer with surface drainage to Arroyo Del Coyote.

## WASTE MANAGEMENT INFORMATION

<u>Waste</u>	<u>Volume</u>	<u>Time Period</u>	<u>Source</u>	<u>Disposition</u>
General refuse, mainly demolition debris	500 yd (1981 estimate)	Unknown	DOE	In place
Munition shipment containers	Unknown	1950s	Sandia	In place

Further Details: No waste management records are available to confirm historical operating practices and verify absence of hazardous constituents. This unit was in operation prior to RCRA, with no reported management procedures to segregate wastes or monitor disposal activities. Hazardous wastes have been disposed of at similar units on the base, and the presence of hazardous constituents is highly probable.

Release Controls. Silty sand of unknown thickness is used as a cover material.

Release History. No history of release has been reported for this unit.

Noted in VSI. General refuse covered the surface of this unit including wooden munition shipment containers, tires and scrap metal. Some of the debris may have been placed in the unit recently based on lack of cover.

### RELEASE POTENTIAL

Soil/Ground Water: The release potential to soil is high based on disposal of wastes in the unlined unit. The release potential to ground water is moderate due to waste disposal in an unlined unit with highly permeable cover material and underlying soil and its location within a recharge area.

Surface Water: The release potential to surface water is generally low due to remoteness of perennial surface water. It may be moderate during storm events if eroded material reaches Arroyo Del Coyote which leads to the Rio Grande.

Air: The potential for ongoing release to hazardous constituents to air is low based on the presence of cover material, although there is a potential for particulate release. The potential for past release of hazardous constituents cannot be determined due to lack of information on past operating procedures.

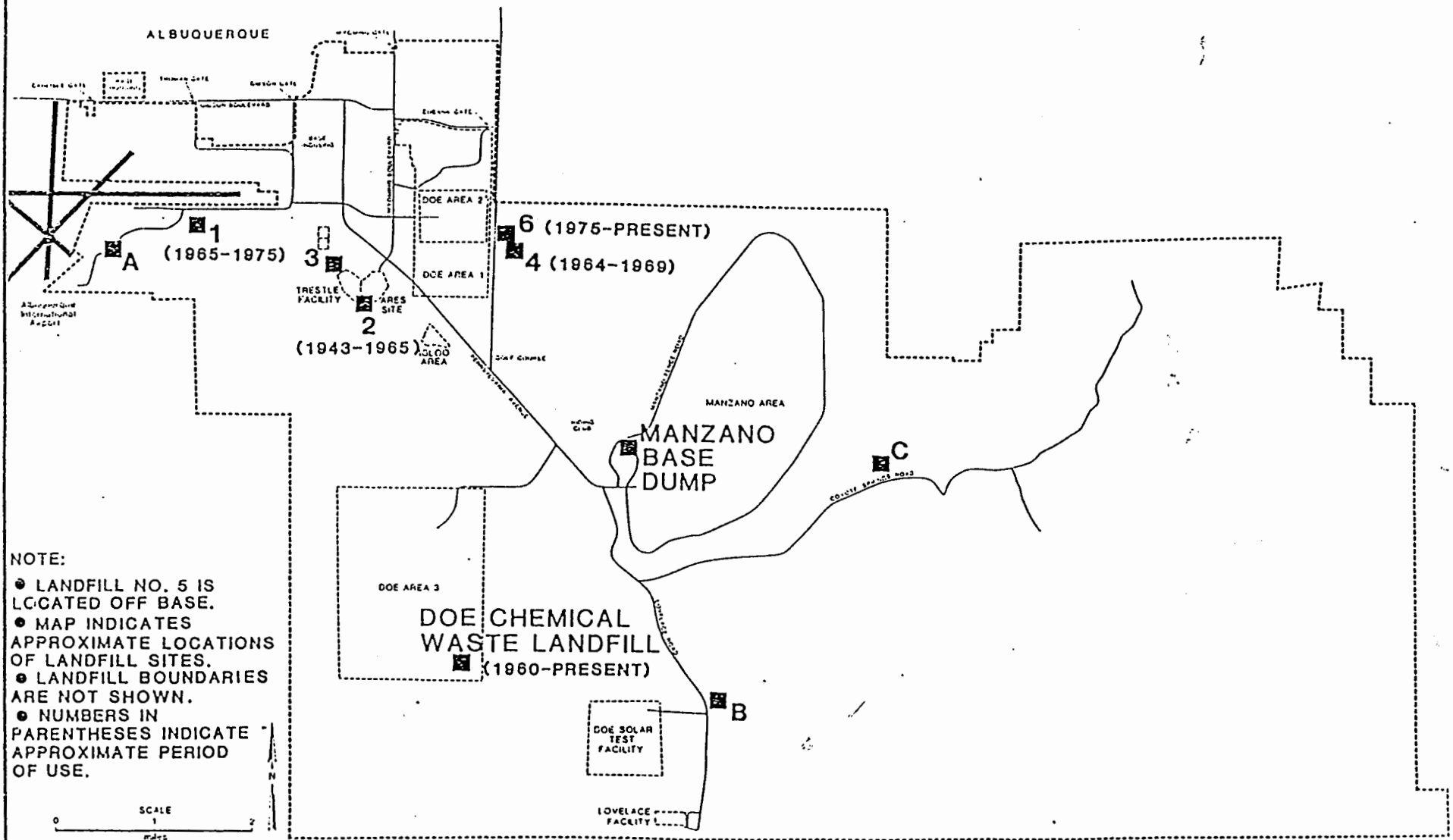
Subsurface Gas Generation: A potential for subsurface gas generation exists. However, there is a low potential for migration due to likely out-gassing through the highly permeable cover material and surrounding soil.

Photographs: 29, 30

Reference: 90, 155, 236



# KIRTLAND AFB LANDFILL LOCATIONS



**NOTE:**

- LANDFILL NO. 5 IS LOCATED OFF BASE.
- MAP INDICATES APPROXIMATE LOCATIONS OF LANDFILL SITES.
- LANDFILL BOUNDARIES ARE NOT SHOWN.
- NUMBERS IN PARENTHESES INDICATE APPROXIMATE PERIOD OF USE.

SOURCE: KIRTLAND AFB DOCUMENTS AND SITE SURVEY

FIGURE 4.8

DEPARTMENT OF THE AIR FORCE  
542d CREW TRAINING WING (AMC)

3 - NOV 1992

FROM: 542d CTW/EM  
Kirtland AFB NM 87117-5659

SUBJ: Changes to ER Program Site List, SNL Sites, Former KAFB Sites,  
Now SNL Responsibility, Your Memo, 16 August 1991


TO: SNL Div 7025 (Mr. Warren Cox)

1. Reference the SNL Memo dated 16 August 1991 by Ms Kathy Gaither, SNL Division 7723, on the same subject (Atch 1). Other sites have been double listed on Kirtland Air Force Base (KAFB) and Sandia National Laboratories (SNL) Solid Waste Management Unit (SWMU) listings.

<u>KAFB Site</u>	<u>Location</u>	<u>SNL Site</u>
LF-22 Landfill C	SW of Bldg <u>9800</u> (of Test Site Road)	Site 8 Open Dump
ST-328, Rocket Impact Zone	E of LF-22, West of Test Site Road	Site 58 Coyote Canyon Blast Area

2. These sites are a combination of SWMU's generated by SNL's testing of rocket propelled weapons systems. The descriptions of these sites and a map are at attachments 2, 3, and 4.

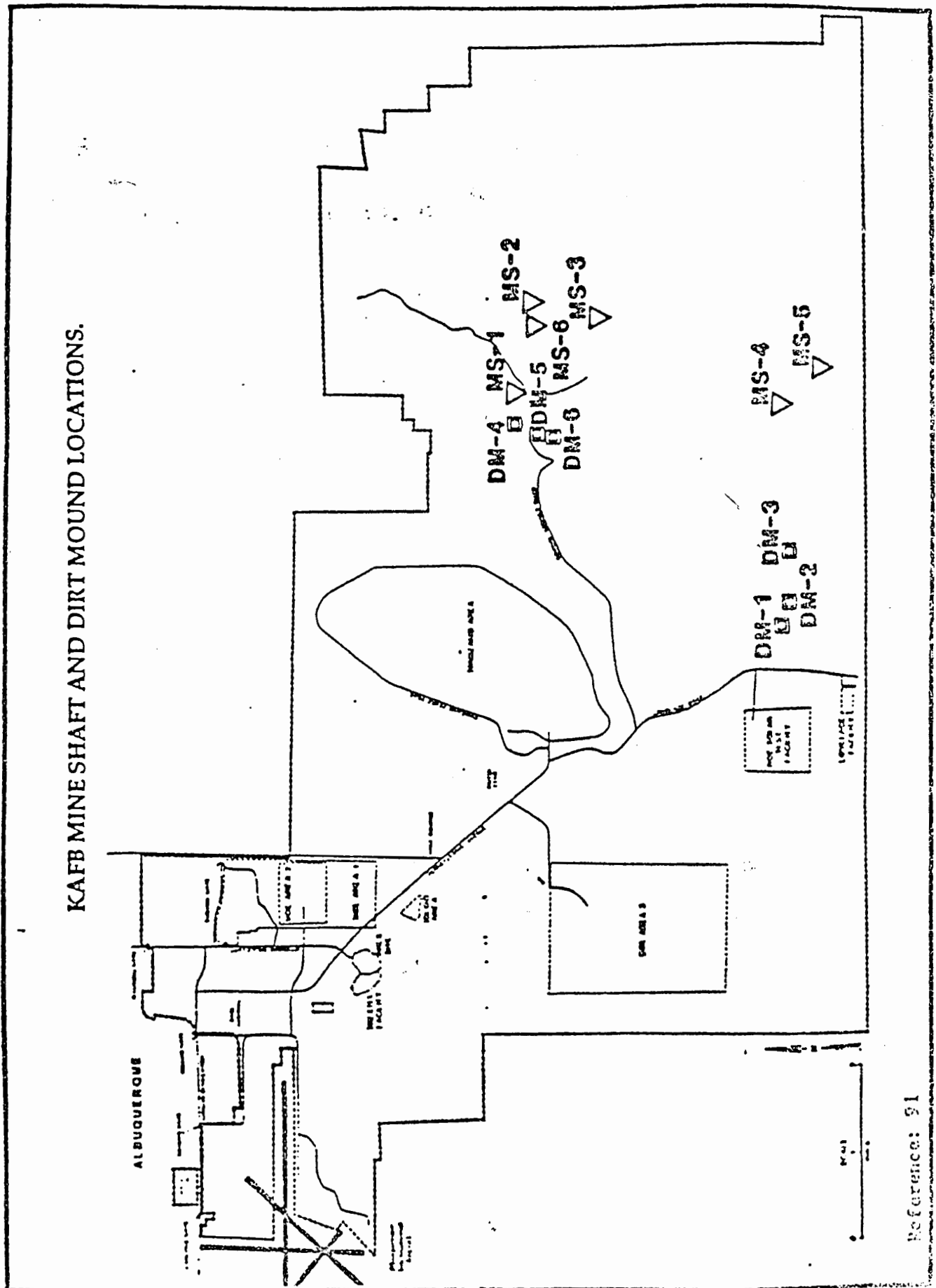
3. Since these sites are on the SNL's SWMU list, KAFB requests that SNL accept these sites for investigation. If you have any questions, please contact Mr Harry Davidson at 846-2773.

  
THOMAS A. NORRIS, Colonel, USAF  
Director  
Environmental Management Division

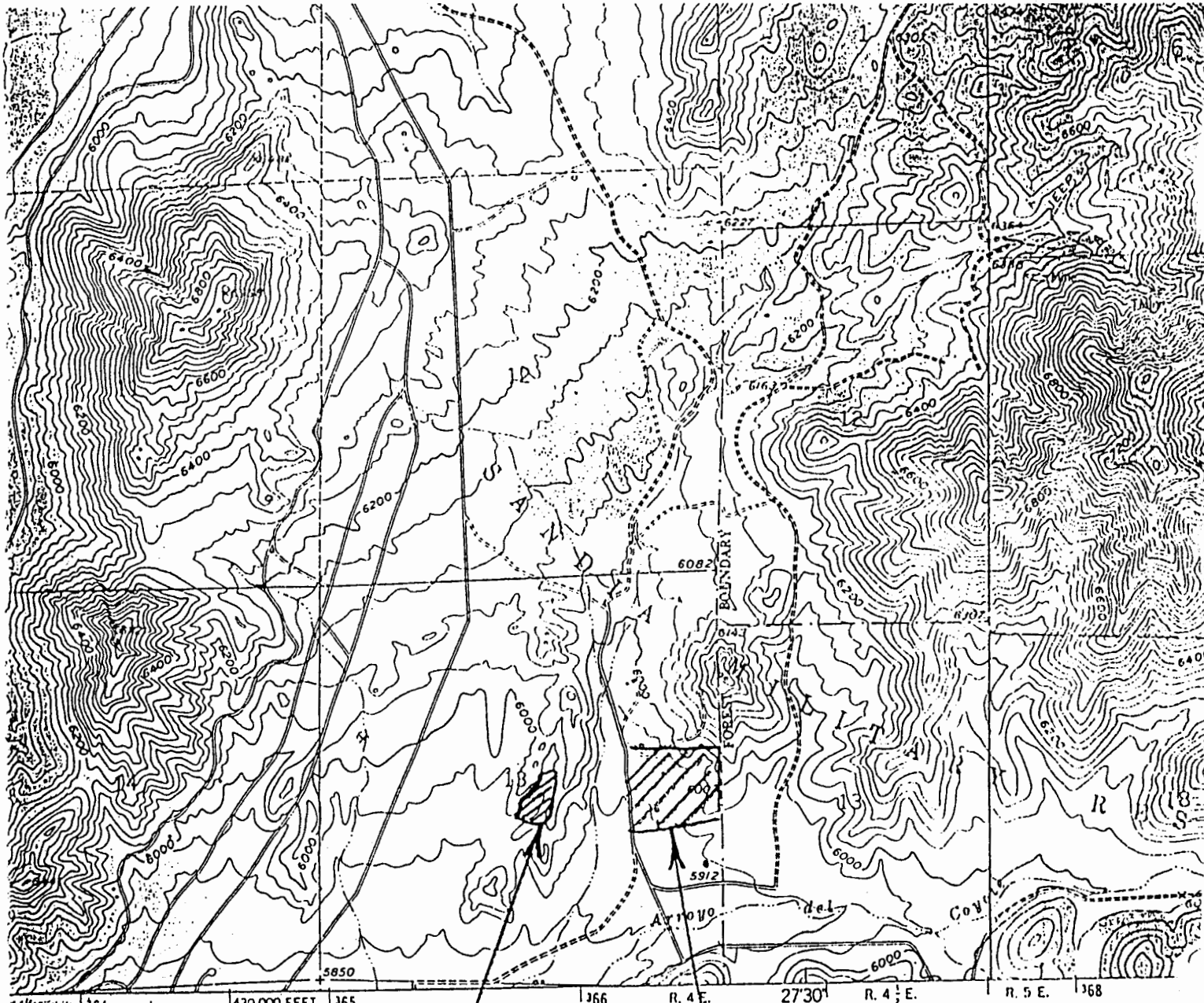
- 4 Atch  
1. SNL Memo, 16 Aug 91  
2. Rocket Impact Zone, ST-328  
3. Landfill C, LF-22  
4. Map of Coyote Spring Area

READ ATTACHMENTS

KAFB MINE SHAFT AND DIRT MOUND LOCATIONS.

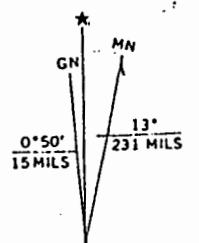


**6.E. Rocket Impact Zone.** This unit is the result of test firing rockets during the 1950s. The site is one to three acres in size and has debris scattered throughout the zone. There are no present release controls, though the potential release to soil is low and no evidence of release was observed during the VSI. This facility is the responsibility of Sandia National Laboratory as "SWMU Site 58, Coyote Canyon Blast Area, Atch 5/9". Therefore, KAFB requests this site be deleted from Appendix III.



Published by the Geological Survey  
 USCGS  
 Symmetric methods from aerial photographs  
 checked 1954. Revised 1961  
 1927, North American datum  
 on New Mexico coordinate system,  
 Transverse Mercator grid ticks,  
 compiled from aerial photographs  
 72. This information not field checked  
 extension of urban areas

LANDFILL C



UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

ROCKET IMPACT ZONE 6-E  
 NATIONAL GE

THIS MAP COMPLIES WITH  
 FOR SALE BY U.S. GEOLOGICAL SURVEY

Manzano Fire Training Pit

Add to Appendix II

<u>EPA #</u>	<u>KAFB #</u>	<u>Title</u>
6-16	FT-14	Manzano Fire Training Pit

1. At the time the Kearney study was done (1981), the exact location of the FT-14 was not determined. It was located on a 1955 aerial photograph of Manzano Base.

2. The site appears to have been used for training to extinguish structure fires. Wood crates/pallets and flammable oil and/or solvents appear to have been used to create the fire.

Site Location: In the northwest corner of the fenced area around the cantonment (living) area of Manzano Base. Consists of two areas.

Cause of Concern: Oil, solvents and possibly gasoline may have soaked into the soil under the pit.

Action to be Taken: Take soil samples to a depth of 100 feet, sample at 25-foot intervals, one hole in the center of each pit. Drive nine other holes to a depth of 20 feet. Take samples from 20-foot core as deemed necessary on inspection. Location as show in Figure 3.4.4.1 (Atch 6-1).

Closure Rational: Remove contaminated soil and transport it to the proper disposal facility. Clean close.

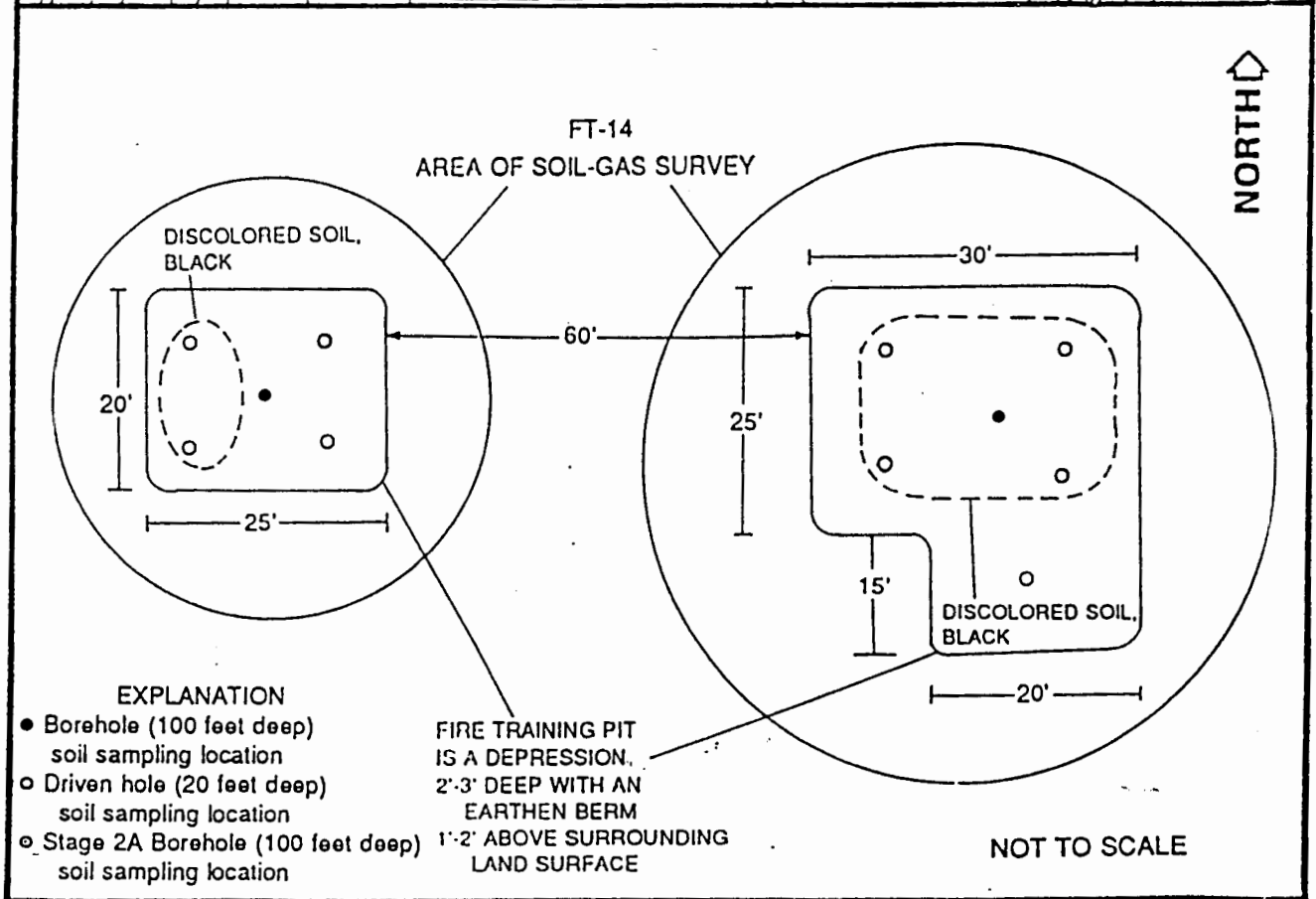
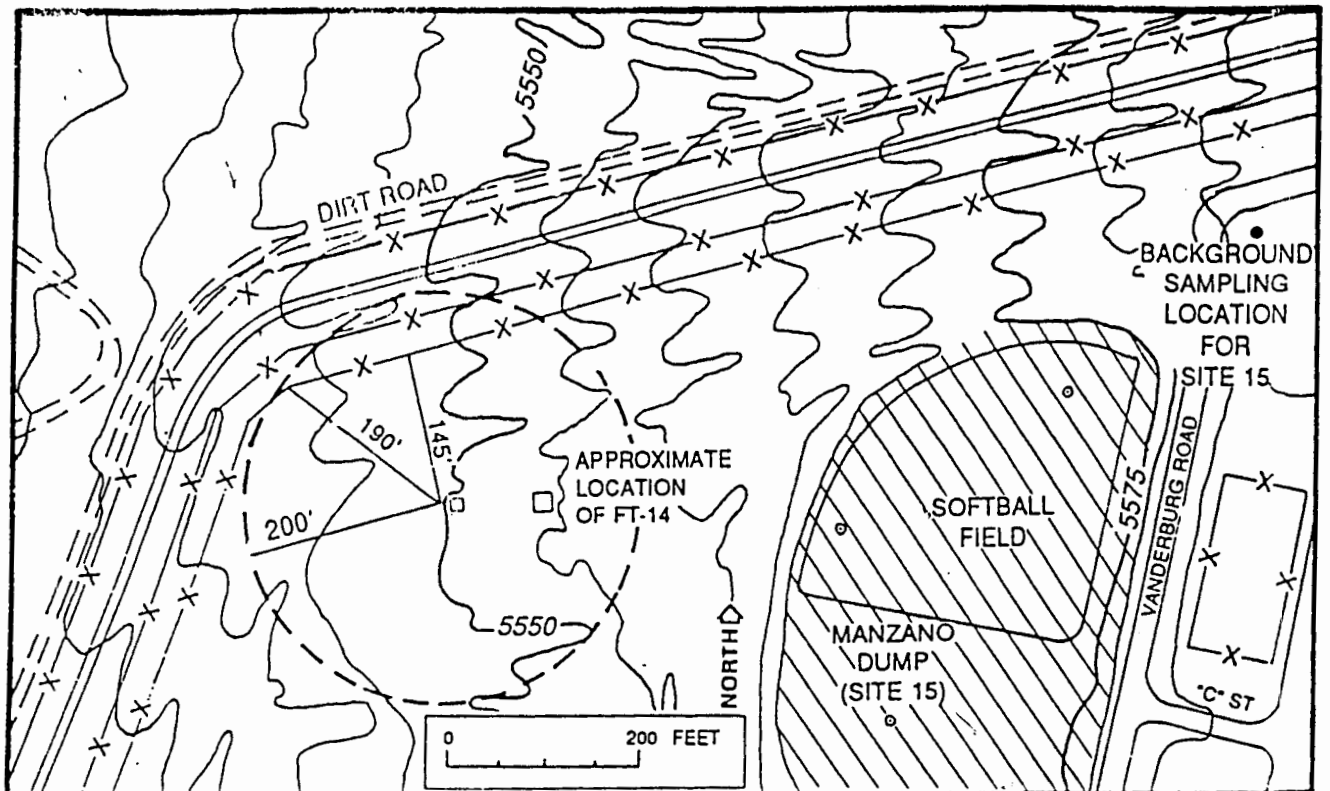


Figure 3.4.4.1.--Approximate sampling locations at Site 26, Manzano Fire Training Pit FT-14.

Site Name: ST-338, Horizontal Dipole Drum Rack

Add to Appendix III list.

Site Location: Northeast of Bldg 20560

Cause of Concern: Drillage from eight to ten 55-gallon drums was collected in a concrete catch trough. Rainwater caused the drillage to overflow the trough and drain into the ground. Solvents and lubricants were dispensed from the barrels.

Actions to be Taken: Take soil samples to a depth of 100 feet; conduct laboratory analysis to determine magnitude of the problem. Shallow samples are 10 feet deep. If action levels are exceeded, site remediation will be necessary.

Closure Rationale: Remove contaminated soil and transport it to the proper disposal facility. Clean close.

SAMPLING POINT  
ID CODE: 0097-NP-001

350220106333513 (FIRST 6 NO'S ARE LAT-  
ITUDE, SECOND 7 NO'S ARE LONGITUDE,  
LAST 2 NO'S ARE H.M.NO'S)  
INVERT ELEVATION 5361.69

ST-302

ST-338

ST-301

WYOMING

DOE  
SPUR

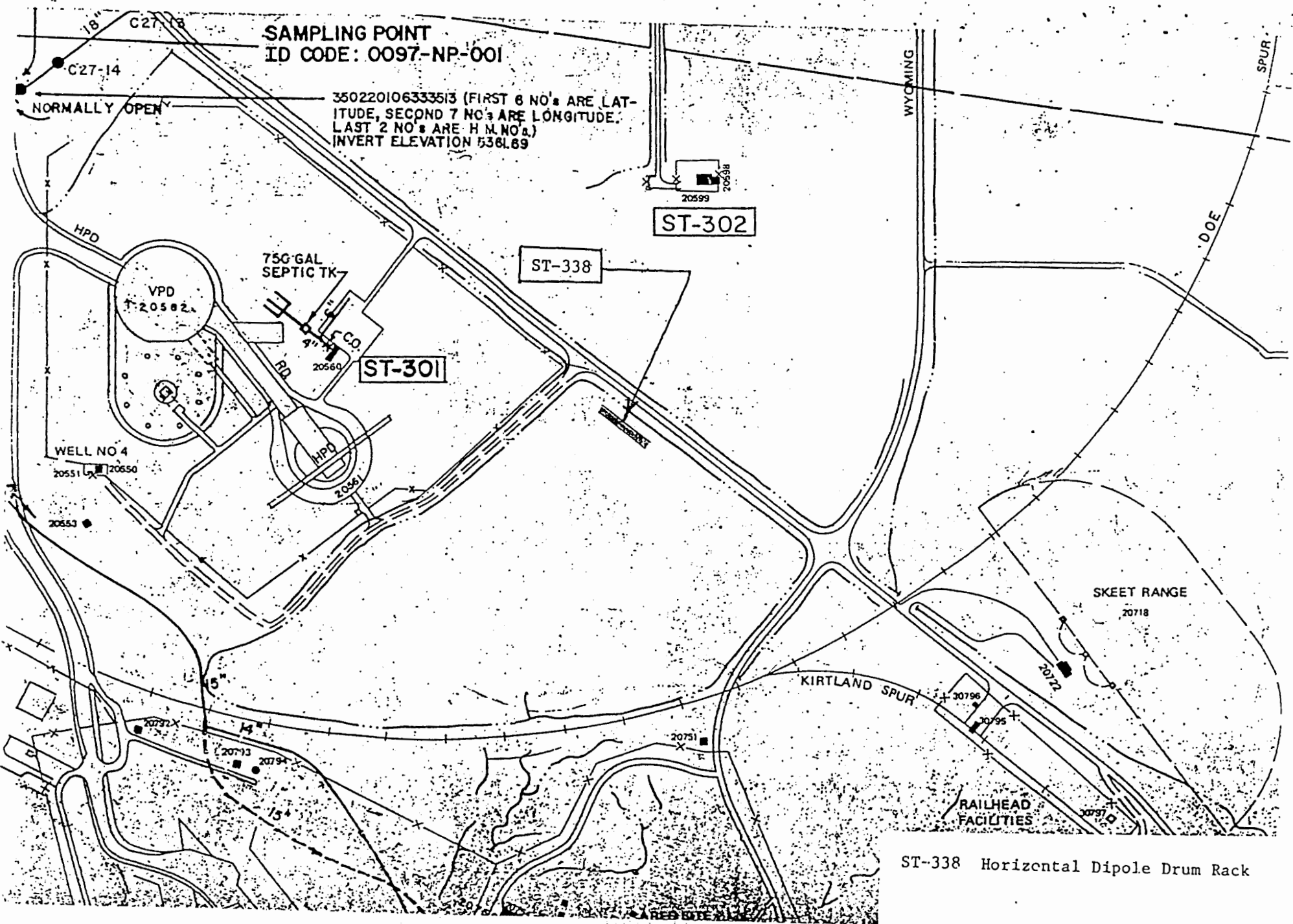
SKREET RANGE  
20718

KIRTLAND SPUR

RAILHEAD  
FACILITIES

ST-338 Horizontal Dipole Drum Rack

Atch 7, Per 2 of 2





Site Name: ST-273, Septic Tank, Bldg 618

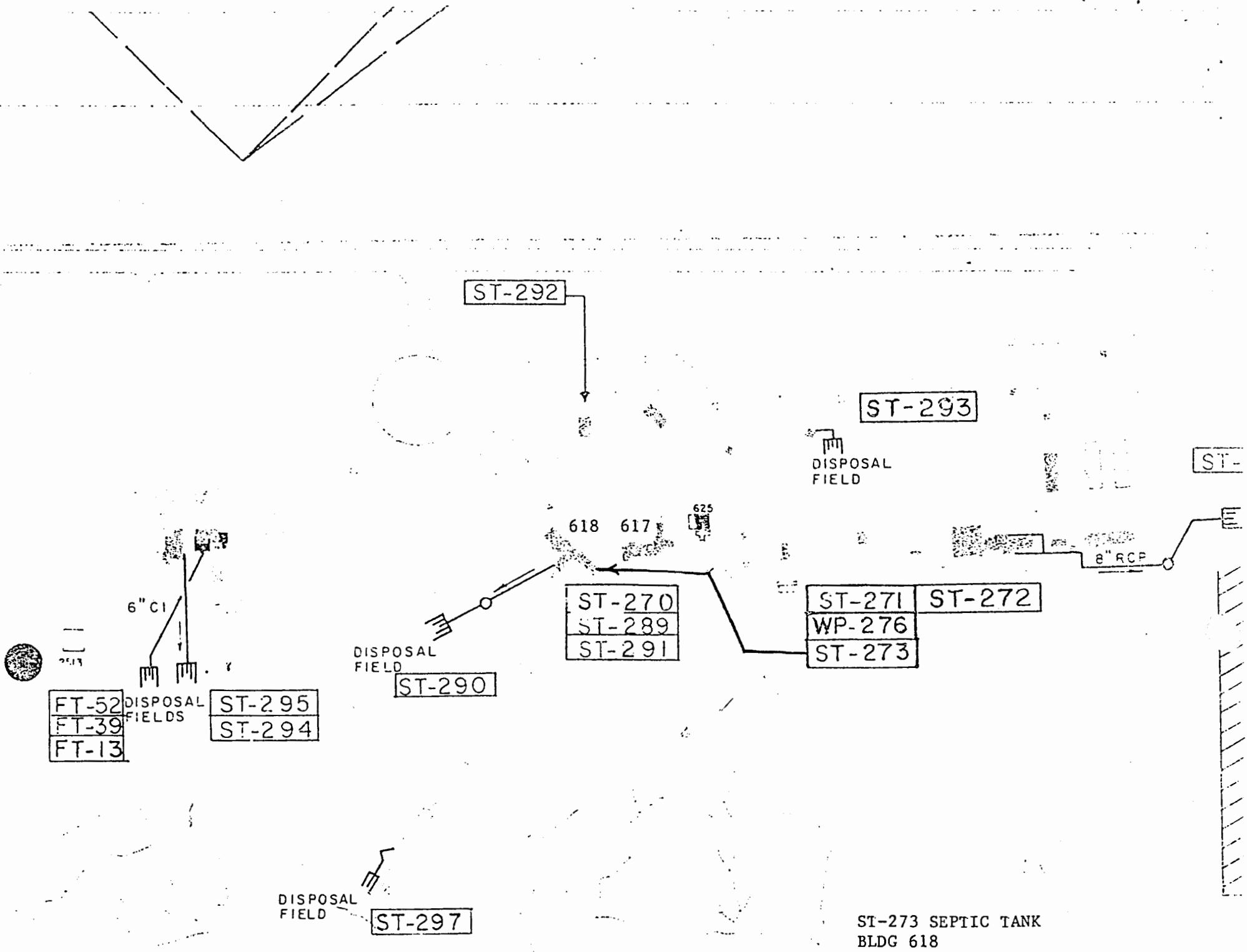
Add to Appendix III list.

Site Location: North side of the building

Cause for Concern: A photo laboratory may have used this septic tank for disposal of chemicals.

Actions to be Taken: Bore one hole to a depth of 100 feet. Sample at 25-foot intervals for solvent, heavy metals and photo chemicals.

Closure Rationale: Depending on depth and lateral extent (possibly under adjacent wings of Bldg 618) of plume, remove soil and dispose of as hazardous waste.



ST-273 SEPTIC TANK  
BLDG 618

Site Name: ST-337, US Corps of Engineers Vehicle Maintenance Yard

Add to Appendix III.

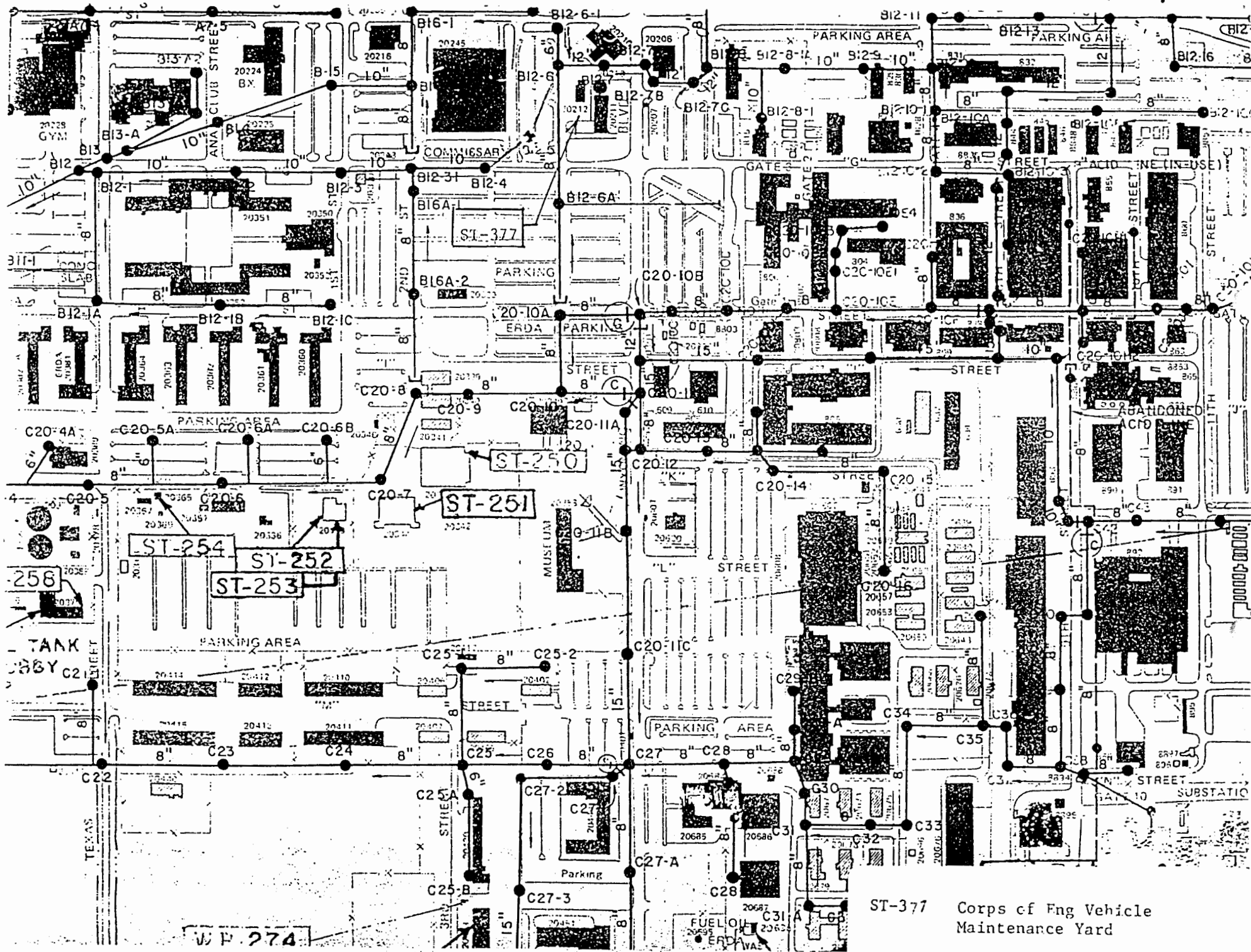
Site Location: Southeast corner of fenced yard for Bldg 20212, adjacent to southwest corner of Bldg 20211.

Cause of Concern: Waste oil barrels for the vehicle maintenance facility have been stored here. Sloppy pouring of oil and other automotive products have stained the soil in an area 10 feet x 50 feet. Site is directly over the abandoned fuel oil tanks for Bldg 20211 (closed steam boiler plant.)

Actions to be Taken: Hand auger to 25-foot depth to determine nature and extent of soil contamination. USTs are scheduled to be removed.

Closure Rationale: Dispose of soil above the USTs as determined by testing. As USTs are removed, sample soil to 50 feet below bottom of tanks. Respond to results of these tests and clean close.

Closure Method: Soil removal.



ST-377 Corps of Eng Vehicle Maintenance Yard

Site Name: ST-339, Construction Yard

Add to Appendix III list.

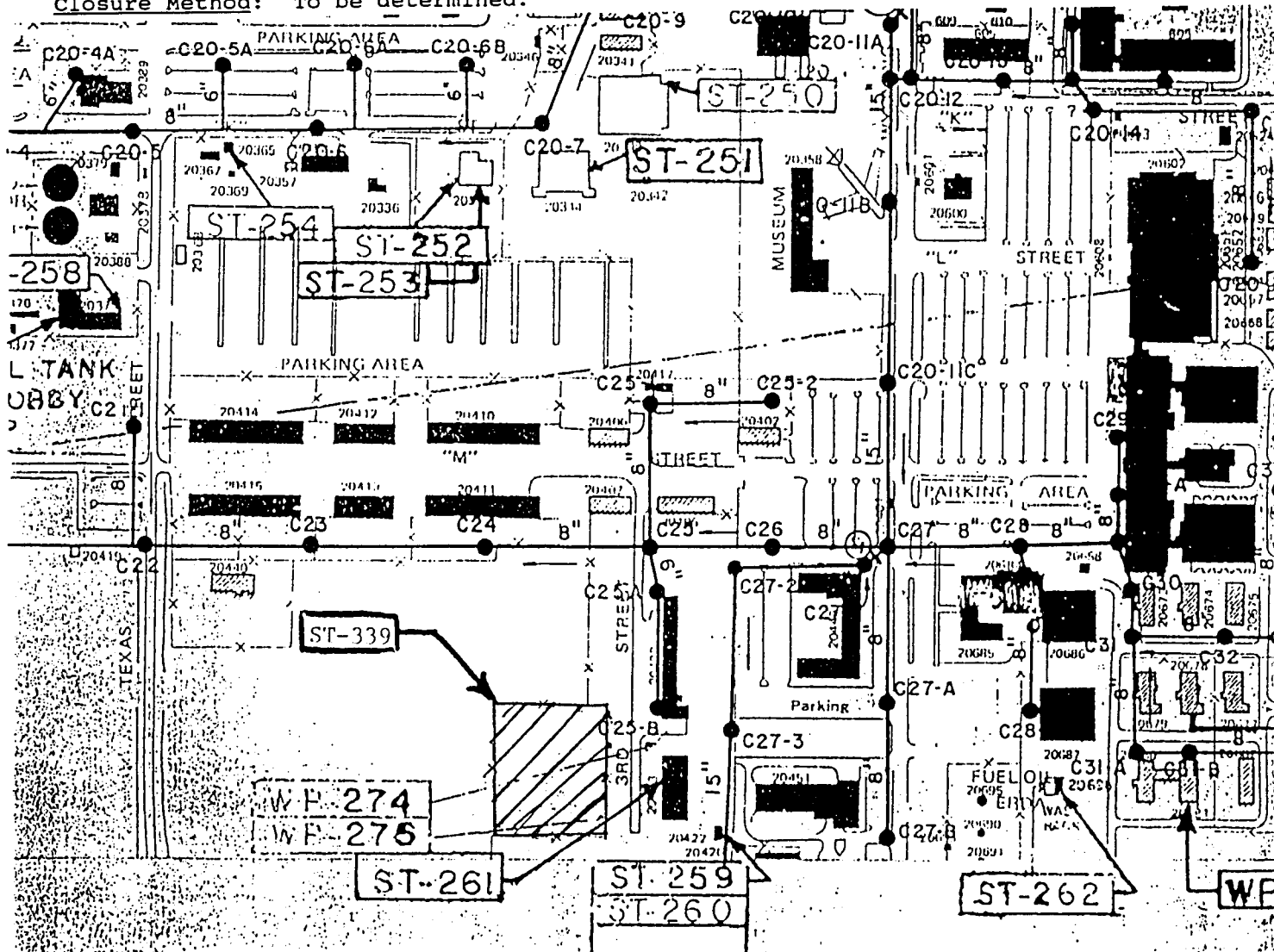
Site Location: Approximately 90 feet x 100 feet fenced area west of Bldg 20423 (Atch 10-1).

Cause of Concern: Original soil sampling was done as a "background sample" for the investigation of an acid neutralization pit located at the northwest corner of the battery shop in Bldg 20423. No history of spills exists for this area. Solvents were detected to a depth of 20 feet. Results of sampling are at Atch 10-2.

Actions to be Taken: Establish sampling grid pattern in the contractor yard and take soil samples to a depth of 50 feet. Determine if a problem exists. Conduct a risk assessment. Remediate if necessary.

Closure Rationale: To be determined.

Closure Method: To be determined.



SANITARY SEWER LEGEND

EXISTING

Site Name: ST-340, Septic Tank, Bldg 57011

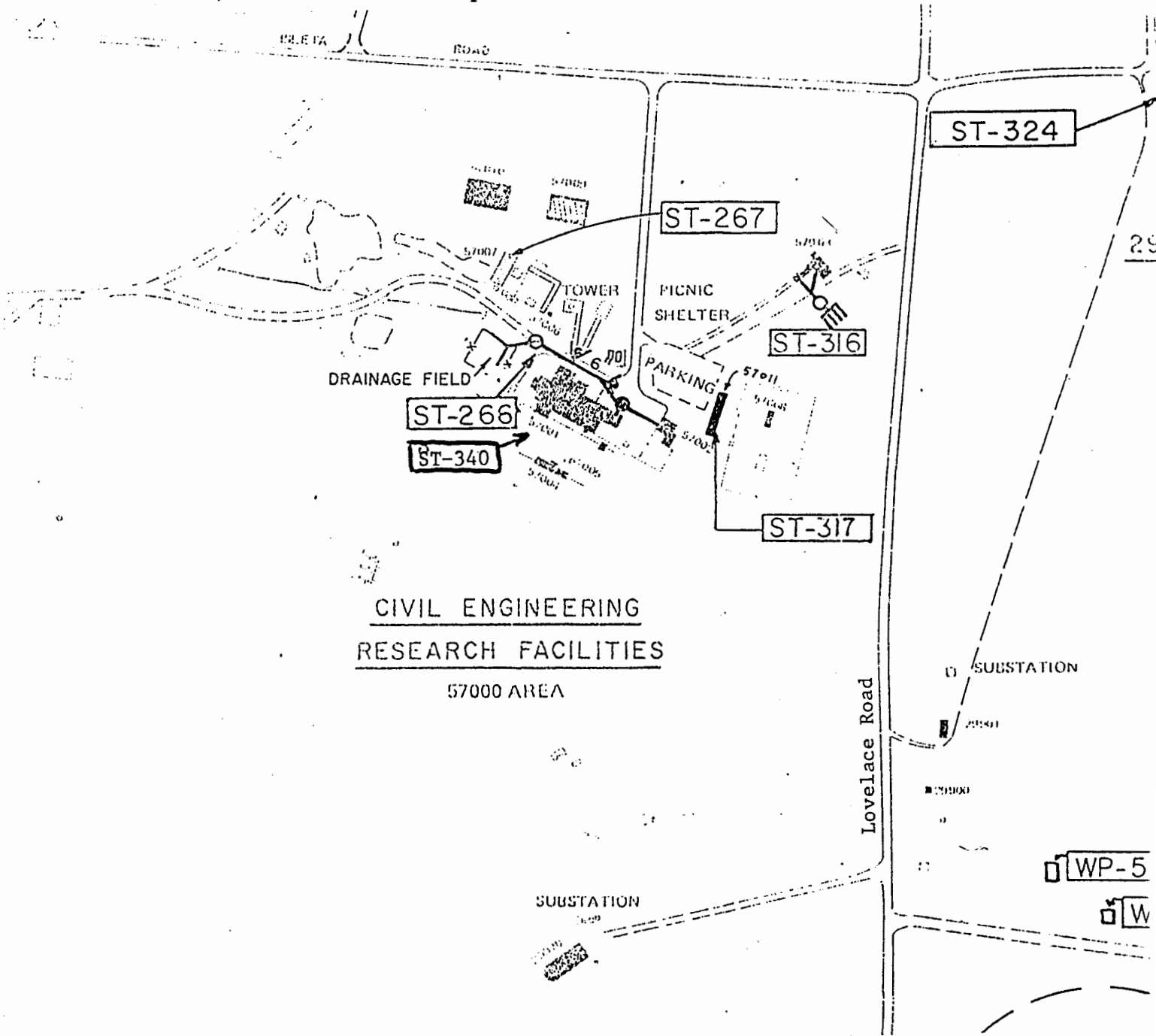
Add to Appendix III list.

Location: Septic tank and drain field southwest of Bldg 57011 (Atch 11-1).

Area of Concern: Chemicals and oils may have been disposed of through this system. A deep sink feeds the ST.

Actions to be Taken: Take soil samples (3 each) to a depth of 100 feet. Sample at 25-foot intervals. Test for chemicals and heavy metals.

Closure Rational: Depending on what chemicals might be discovered and risk assessment, remove soil and dispose of as hazardous waste.



SITE NAME: ST-341 SWMU , Condensate Tank, Bldg 1032

Unit Type: Underground Tank

Purpose of Unit: Storage of condensate at JP-4 fuel handling facility.

Periods of Operation - 195\_ to present

Unit Design and Description: See type

Unit Location Information: The two units are west of Bldg 1033.

WASTE MANAGEMENT INFORMATION

<u>Waste</u>	<u>Volume</u>	<u>Time Period</u>	<u>Source</u>	<u>Disposition</u>
JP-4 fuel	400 gal	As needed	KAFB	DRMO

Further Details: Soil Test results:

Ethyl Benzene	52.2 mg/kg
Toluene	82.4
Xylenes	338.0

Liquid originated from the standpipe of an underground tank which collects water/fuel from the water condensers (part of the fuel pumping equipment in the building). This tank holds 400 gallons; it appears the standpipe has overflowed at least twice. While pumping out the tank, it was noted the standpipe was loose in the ground. Conclusion: The standpipe was either broken or improperly fitted. There is a relatively small area of contamination around the base of the standpipe and on the surface soil extending a few feet west. A subsurface leak in the standpipe might contribute to the problem.

Release Control: There are no release controls for this unit.

Release History No previous reports of release prior to 3-93.

Noted in VSI: Not observed during VSI.

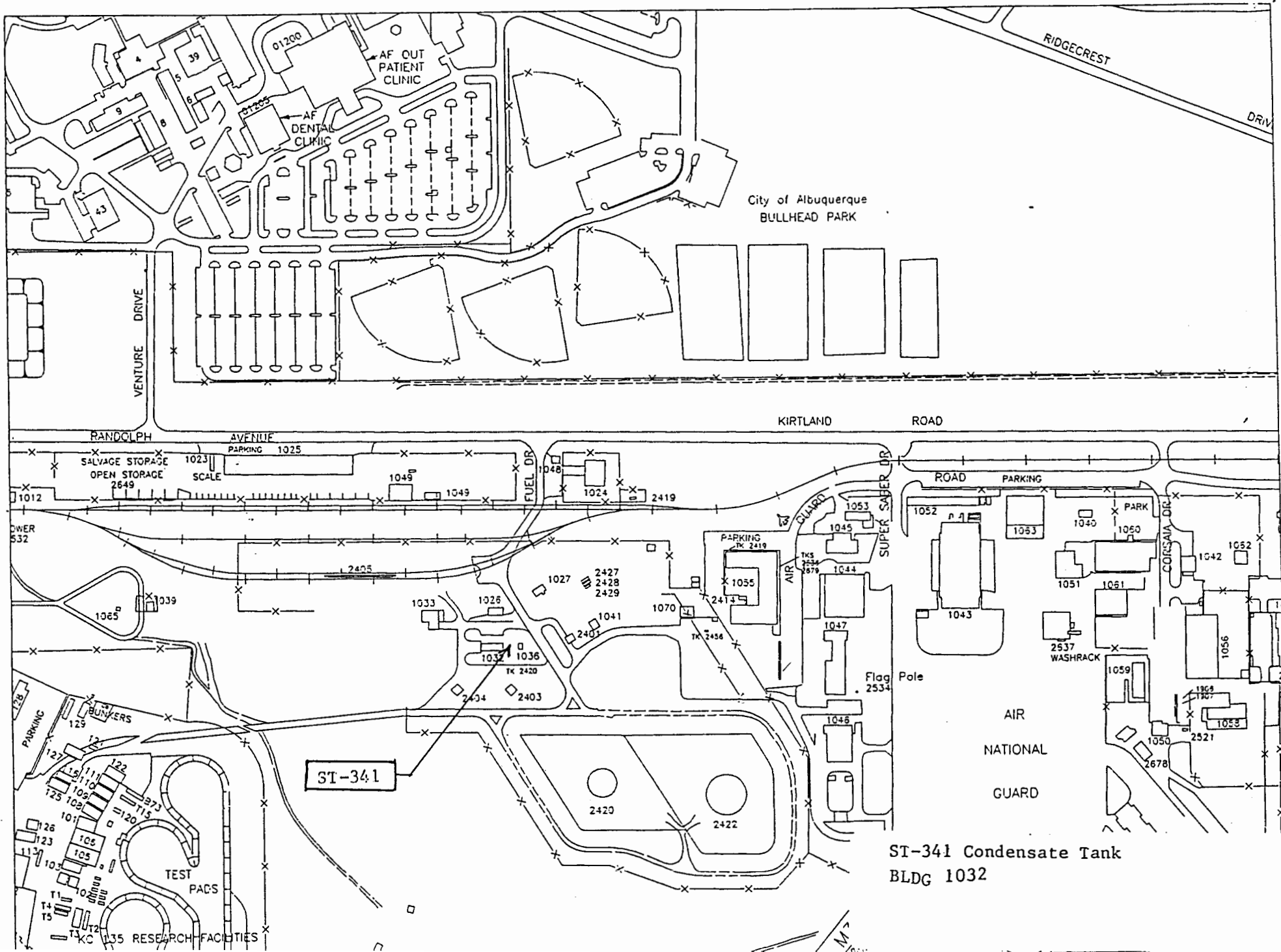
RELEASE POTENTIAL

Soil/Ground Water: The release potential to soil/ground water depends upon the integrity of the vent stack. Based on the age and lack of release controls, the release potential is high.

Surface Water: The release potential to surface water is low due to remoteness of perennial surface water.

Air: The release potential to air is low due to the underground location of the unit.

Subsurface Gas Generation: The potential for subsurface gas generation depends on the integrity of the system. Due to the age of the tank, the nature of the waste, and lack of release controls, the potential for subsurface gas generation is moderate.



ST-341

ST-341 Condensate Tank  
BLDG 1032

Atch 12