

**SITE SURVEY SUMMARY SHEET
FOR
DERP-FUDS SITE NO. J09CA099900
ALMADEN AIR FORCE STATION**

SITE NAME: Almaden Air Force Station.

LOCATION: The site is located in Santa Clara County, approximately 10 miles south of San Jose and 50 miles southeast of San Francisco, California (Figures 1 and 2).

SITE HISTORY: Between 1957 and 1962, the United States Air Force (USAF) acquired 48.02 fee acres, 43.72 easement acres, and 10.66 lease acres (total acreage acquired was 102.40) for the Almaden Air Force Station facility. The subject property was acquired from private individuals, except for a portion which was owned by San Jose Water Works, a public utility company. The Air Force Station was used by the USAF as a radar installation under the North American Air Defense Command (NORAD). Improvements to the site included radar towers, family housing, operation, training, and recreation facilities, a maintenance shop, a motor repair shop, mess halls, dispensary, commissary, and dormitories. There were approximately 30 military personnel stationed at the Air Force Station and approximately 50-100 civilian personnel who worked at the Air Force Station.

In December 1980 the USAF declared the site excess to their needs, and in June 1982 the site property and improvements were surplus and transferred to the General Services Administration (GSA). On 24 April 1986, the GSA quitclaimed the property (102.40 acres) to Midpeninsula Regional Open Space District. The site is currently closed to the public.

A DERP confirmation study was conducted at Almaden Air Force Station by Kennedy/Jenks/Chilton, Inc. (1988) to determine whether chemical contamination of the soil exists. Volatile organic compounds and semi-volatile organic compounds (e.g. industrial solvents) were detected in the auto maintenance shop (Building 211). Low level concentrations of PCB's (6.8-8 mg/kg) were detected in some of the pad-mounted transformers. High levels of soil contamination (acetone 1600 $\mu\text{g}/\text{kg}$, ethylbenzene 290 $\mu\text{g}/\text{kg}$, toluene 490 $\mu\text{g}/\text{kg}$, xylenes 2400 $\mu\text{g}/\text{kg}$ and petroleum hydrocarbons 96,000 mg/kg) were detected at the two lube and oil pits in the motor pool area and at the radar tower. Concentrations of metals (chromium 170 mg/kg, lead 1800 mg/kg, and mercury 9.5 mg/kg) were detected at Building 250.

SITE VISIT: The site was examined on 20 May 1991 by Mr. Roger Norris and Mr. Jenn-Yih Peng of The Earth Technology Corporation, escorted by Mr. Chris Saenger, Site Caretaker, and Ms. Annette Coleman, Ranger for Midpeninsula Regional Open Space District.

Potential contaminant sources at the site include aboveground and underground fuel storage tanks, vehicle lube pits, drums, containers, and transformers. Currently, there are 17 underground and 10 aboveground fuel storage tanks (Figures 3 and 4). Of the 17 underground storage tanks, 16 are

diesel fuel storage tanks, and one is a mogas (leaded gasoline) storage tank. Storage capacities of the underground tanks are as follows:

Volume, gallons	Quantity	Product	Location
55	1	diesel	Building 200
275	1	diesel	Building 516
800	1	diesel	Building 517
950	6	diesel	Buildings 510-515
1,000	1	diesel	Building 700
2,500	1	diesel	Building 102
10,000	2	diesel	Building 112
10,000	1	mogas	Building 420
12,000	2	diesel	Building 120
20,000	1	diesel	Building 112

The 10 aboveground storage tanks were used for diesel fuel storage. Storage capacities of the abovegorund tanks are as follows:

Volume, gallons	Quantity	Product	Location
50	1	diesel	Building 200
120	3	diesel	Buildings 205 and 211
530	1	diesel	Building 120
1,100	1	diesel	Building 225
4,300	1	diesel	Building 100
7,780	1	diesel	Building 415
84,000	2	diesel	Building 880

There are approximately 5,500 linear feet of underground fuel pipelines. The site also contains sixteen 55-gallon storage drums and 110 storage containers (from 1 gallon to 5 gallon capacity) used to store lube oil, paints, thinners, and household cleaners; 24 pad-mounted transformers (several reportedly contain PCBs) (Figure 5), 22 pole-mounted transformers, and hydrocarbon and solvent-contaminated soil in two lube and oil pits in the motor pool area. Three of the pad-mounted

transformers toppled over presumably during the 1989 Loma Prieta earthquake. Damage to two of the three transformers resulted in the leakage of No. 10 oil over an area measuring 3 feet by 10 feet. There is no evidence of PCB leakage from any of the transformers. Diesel oil stained soil was observed adjacent to one of the two, 84,000-gallon aboveground diesel fuels storage tanks.

Mr. Jim Blamey of the Santa Clara County Health Department has formally requested that all abandoned underground and aboveground storage tanks at the Almaden Air Force Station be permanently closed or removed according to county established guidelines.

CATEGORY OF HAZARD: HTW, CON/HTW.

PROJECT DESCRIPTION: a. HTW. There are approximately 500 cubic yards of hydrocarbon and solvent-contaminated soil present at two lube and oil pits in the motor pool area. There is visible diesel oil stained soil adjacent to one of the two 84,000-gallon aboveground diesel fuel storage tanks.

b. CON/HTW. The project consists of the removal and disposal of 17 underground and 10 aboveground diesel fuel and mogas storage tanks; 5,500 feet of associated underground pipelines; sixteen 55-gallon storage drums and 110 storage containers; 24 pad-mounted and 22 pole-mounted transformers, several of which contain low-level concentrations of PCB. The testing and possible removal of soil under the tanks and pipelines, and the backfilling of tank excavations with imported fill.

AVAILABLE STUDIES AND REPORTS: U.S. Army Corps of Engineers, Draft INPR for Almaden AFS, dated 1986 and revised in 1989, Sacramento District, Sacramento.

PA POC: Ms. Sharon V. Bruno, CESP-K-ED-M/HTW, 916/557-7408.



Figure 1

**Location Map
Almaden Air Force Station**

0 5 10 miles

Scale



Source: Base map from U.S.G.S. 1:250,000
San Jose CA Quadrangle.

Site No. J09CA099900

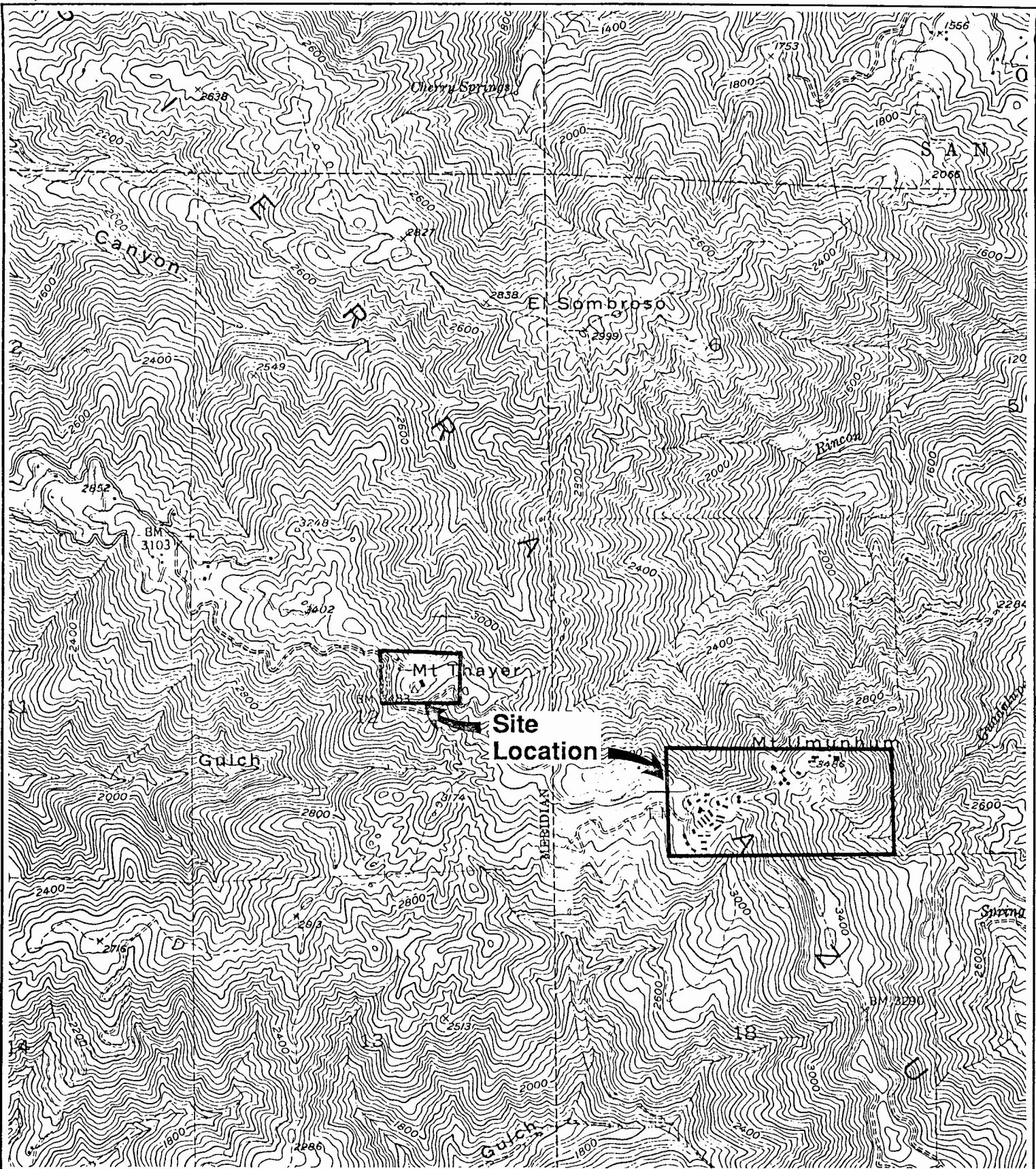
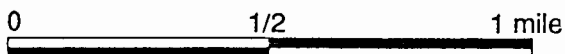


Figure 2

Site Map
Almaden Air Force Station

Site No. J09CA099900



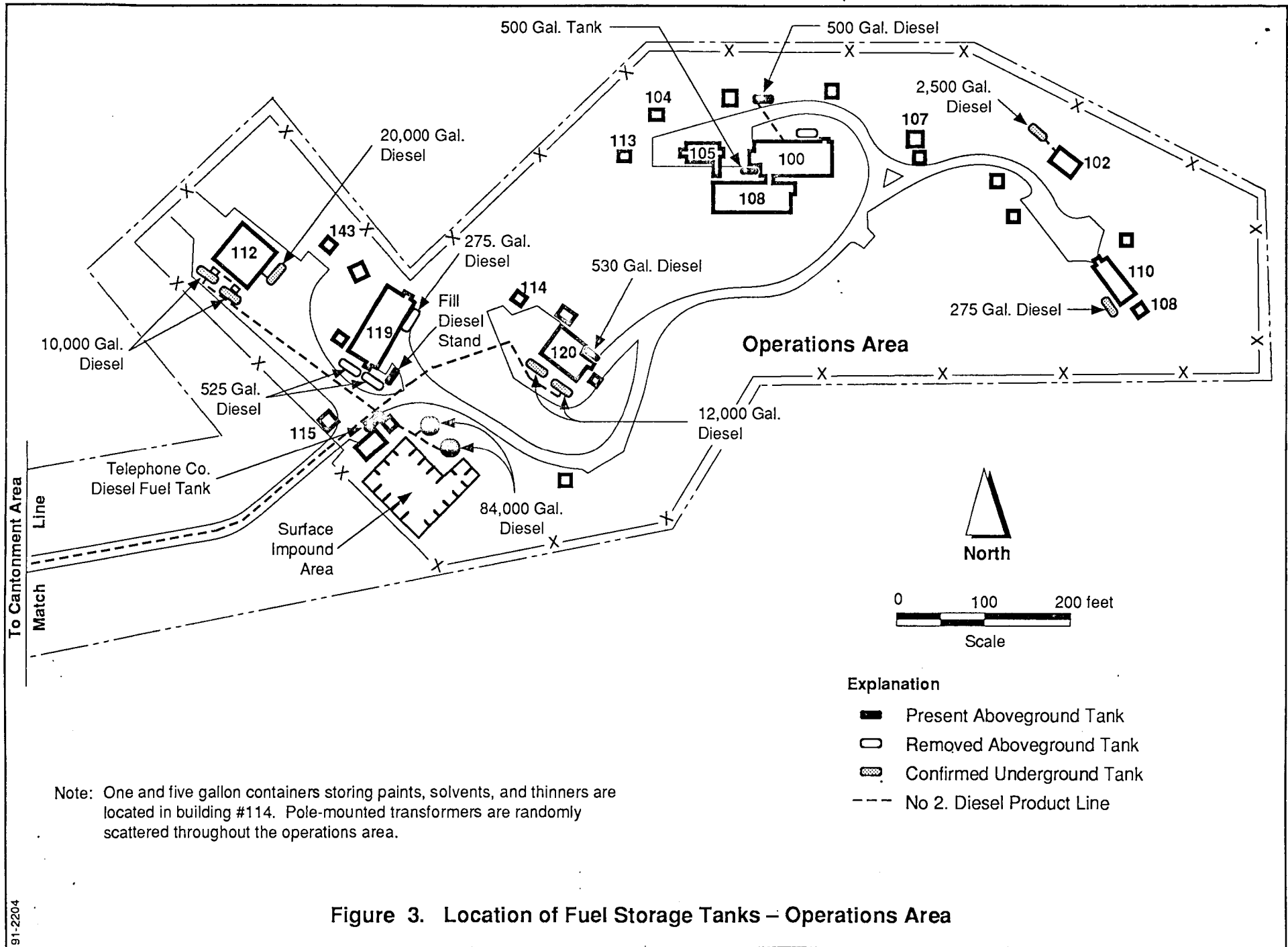
Scale



North



Source: Base map from U.S.G.S. 1:24,000
 Los Gatos CA Quadrangle.



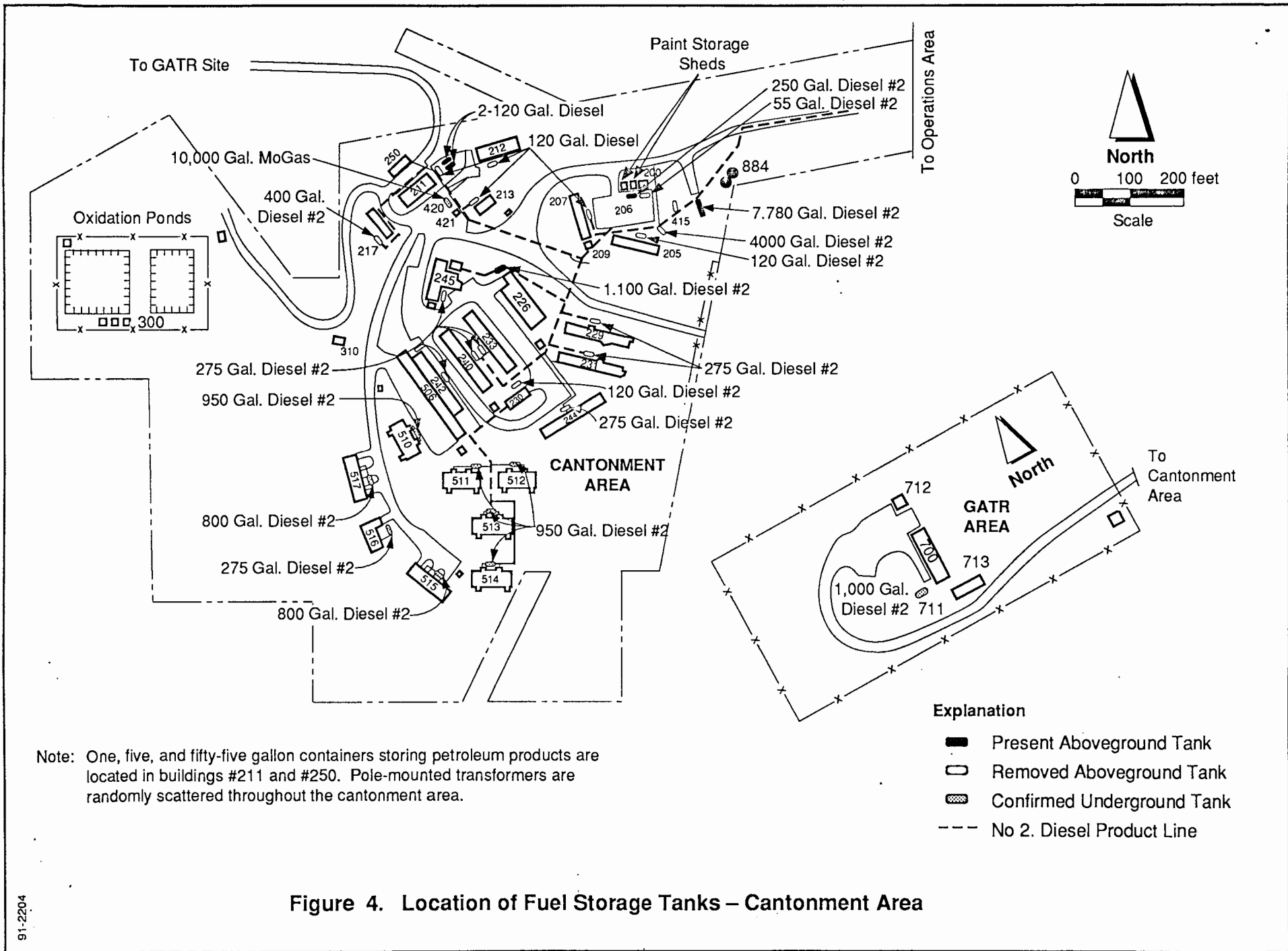


Figure 4. Location of Fuel Storage Tanks – Cantonment Area

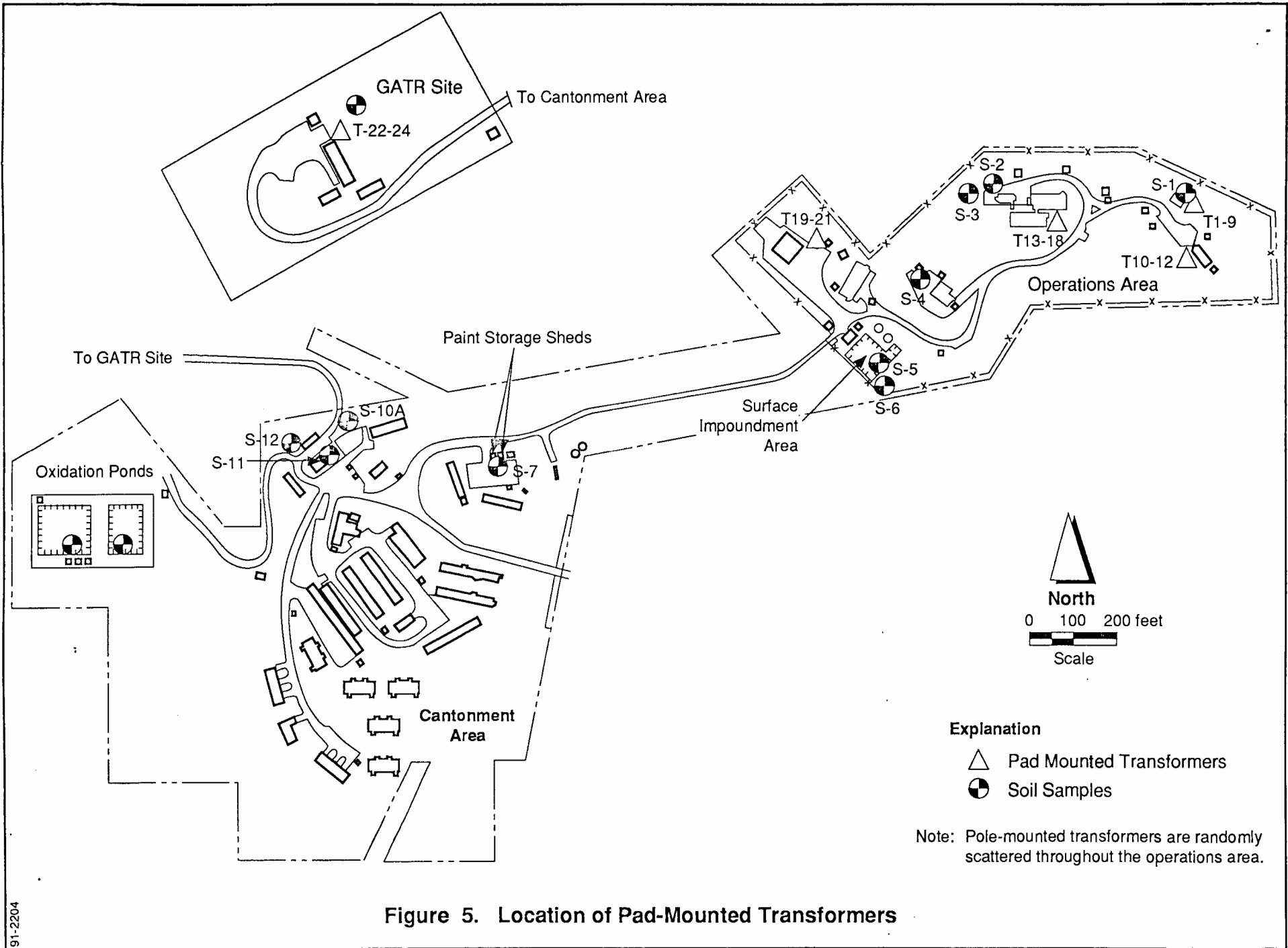


Figure 5. Location of Pad-Mounted Transformers

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES

FINDINGS AND DETERMINATION OF ELIGIBILITY

ALMADEN AIR FORCE STATION (Z-96)
SANTA CLARA, CALIFORNIA
SITE NO. J09CA099900

FINDINGS OF FACT

1. Between 1957 and 1962, the United States Air Force (USAF) acquired 48.02 fee acres, 43.72 easement acres, and 26.62 lease acres (total acreage acquired was 118.36) from several private individuals and the San Jose Water Works (SJWW), a public utility company. According to the Tract Register contained in the real estate historical records, a total of 2.28 acres and undetermined acres were leased from the SJWW.
2. The site was called the Almaden Air Force Station (AFS); Transmitter Site M-96, Mt. Umunhum near Almaden; AC&W Site M-96; Call Mountain Radio Relay Annex; and also Almaden Air Force Station (Z-96). The site was used by the USAF as a radar installation under the North American Air Defense Command (NORAD). Improvements at the site began in 1957 and included barracks, radar towers, classrooms, maintenance and storage facilities, administrative, dining, and recreation buildings, a chapel, family housing, an infirmary, and a motor pool with a vehicle repair shop.
3. In December 1980, the USAF declared Almaden AFS excess to their needs. According to the February 18, 1981 audited Realty Control File Summary, on September 30, 1980, a total of 18.42 acres of leased land was disposed of by terminating two leases (14.60 and 3.82 acres). The net remaining acreage was 48.02 fee acres, 43.72 easement acres, and 8.20 leasehold acres for a remaining total of 99.94 acres of land. In June 1982, the control of the site property and improvements were transferred to the General Services Administration (GSA). On April 21, 1986, the GSA quitclaimed 91.696 acres, more or less, of perpetual easements and fee acres to Midpeninsula Regional Open Space District (MROSD). The remaining 8.20 acres of leasehold(s) were terminated. The property and improvements are now owned by MROSD. The site is currently closed to the public.

ALMADEN AIR FORCE STATION (Z-96)
SITE NO. J09CA099900

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DoD. It is, therefore, eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701 et. seq.

2 Dec 91
DATE

Mark W. Fisher, Col, ET
for ROGER F. YANKOUPE
Brigadier General, U.S. Army
Commanding