



*California Environmental Protection Agency  
Department of Toxic Substances Control*

## HAZARDOUS WASTE FACILITY PERMIT

Facility Name: Naval Air Weapons Station,  
China Lake

Owner Name: United States  
Department of the Navy  
Commanding Officer  
Naval Air Weapons Station,  
China Lake  
429 East Bowen Road  
China Lake, CA 93555

Facility EPA ID Number:  
CA2170023152

Effective Date: July 13, 2018

Expiration Date: July 12, 2028

Operator Name: United States  
Department of the Navy  
Commanding Officer  
Naval Air Weapons Station,  
China Lake  
429 East Bowen Road  
China Lake, CA 93555

Pursuant to California Health and Safety Code section 25200, this Resource Conservation and Recovery Act (RCRA) equivalent Hazardous Waste Facility Permit is hereby issued to the Naval Air Weapons Station, China Lake.

The Issuance of this Permit is subject to the terms and conditions set forth in Attachment A, and the Part "B" Applications for the PCB Storage Building dated November 2017, Hazardous Waste Storage & Transfer Facility dated May 2018, and Burro Canyon OB/OD Facility (Operation Plans) dated November 2017. The Attachment A consists of 31 pages and Appendices A (2 Figures) and B (3 Figures).

Originally Signed By

Wayne Lorehtzen, P.E.  
Branch Chief  
Permitting Division  
Department of Toxic Substances Control  
Date: June 8, 2018



**NAVAL AIR WEAPONS STATION, CHINA LAKE  
429 EAST BOWEN ROAD, CHINA LAKE CALIFORNIA 93555  
HAZARDOUS WASTE FACILITY PERMIT**

**ATTACHMENT "A"**

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## **PART I. DEFINITIONS**

All terms used in this Permit shall have the same meaning as those terms have in the California Health and Safety Code, division 20, chapter 6.5 and title 22, California Code of Regulations, title 22, division 4.5, unless expressly provided otherwise by this Permit.

1. **"DTSC"** as used in this Permit means the California Department of Toxic Substances Control.
2. **"Facility"** as used in this Permit means all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage, resource recovery, disposal or recycling of hazardous waste. A hazardous waste facility may consist of one or more treatment, transfer, storage, resource recovery, disposal or recycling operational units or combinations of these units.

For the purpose of implementing corrective action under California Code of Regulations, title 22, division 4.5, a hazardous waste facility includes all contiguous property under the control of the owner or operator required to implement corrective action.

3. **"Permittee"** as used in this Permit means the Owner and Operator.
4. **"RCRA"** as used in this Permit means the Resource Conservation and Recovery Act (42 U.S.C. §6901 et seq.).

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**PART II. DESCRIPTION OF THE FACILITY AND OWNERSHIP**

1. **OWNER OF FACILITY**

United States Department of the Navy  
Commanding Officer  
Naval Air Weapons Station, China Lake  
429 East Bowen Road, China Lake, CA 93555

2. **OWNER OF REAL PROPERTY**

United States Department of the Navy  
Commanding Officer  
Naval Air Weapons Station, China Lake  
429 East Bowen Road, China Lake, CA 93555

3. **OPERATOR OF FACILITY**

United States Department of the Navy  
Commanding Officer  
Naval Air Weapons Station, China Lake  
429 East Bowen Road, China Lake, CA 93555

4. **LOCATION**

The Naval Air Weapons Station, China Lake facility at 429 East Bowen Road, China Lake is located in the northwestern Mojave Desert and approximately 150 miles northeast of Los Angeles and 110 miles east of Bakersfield in the counties of Kern, Inyo, and San Bernardino (Facility) as depicted in Figure 1.0 in Appendix A. The Global Positioning System (GPS) coordinates of the Environmental Office for the Facility are latitude 35°39'1.623" N and longitude 117°39'48.880" W. The Facility is predominantly surrounded by undeveloped public lands, which are federally owned and managed by the U.S. Bureau of Land Management.

5. **DESCRIPTION OF FACILITY OPERATIONS**

The Facility's mission is to be the principal Navy research, development, test, and evaluation (RDT&E) center for air warfare systems and missile weapons systems. The Facility manages and conducts the complete weapon development process from concept formulation through the entire life cycle of a weapon system, including fleet and production support.

The Facility covers 1.1 million acres in two major areas: North Range (China Lake Complex) and South Range (Randsburg Wash/Mojave B Complex). The

hazardous waste permitted units identified in Part IV of this Permit are located in the North Range.

The types of activities related to hazardous wastes generated and managed at the Facility include RDT&E operations in support of its mission. These operations generate waste oil, waste jet fuel, and contaminated soils as well as several other waste streams, such as paints, solvents, and laboratory chemicals. Hazardous wastes are accumulated temporarily at satellite accumulation areas located at or near the point of generation, 90-day accumulation areas located at various areas throughout the Facility, and at the permitted storage areas identified in Part IV of this Permit prior to being shipped to an appropriate off-site treatment and or disposal facility.

In addition to the hazardous waste storage activities mentioned above, the Facility treats reactive wastes by open burn/open detonation (OB/OD) at the Burro Canyon location. Reactive wastes treated at the OB/OD units include (1) munitions that are no longer needed for their intended purpose of testing and evaluation, and/or items that are considered obsolete or expired and (2) explosive laboratory wastes generated at the Facility during the development of new explosives and propellants.

#### 6. FACILITY HISTORY

The owner and operator of the Facility first submitted a hazardous waste facility permit application in November 1983; a permit was issued on May 11, 1984. The hazardous waste facility permit was renewed in 2001. A Class 3 permit modification was approved in 2008 to allow the Facility to continue to treat reactive hazardous waste by open burn/open detonation by adding the OB/OD units to the permit. On January 27, 2011, the owner and operator of the Facility submitted to DTSC a RCRA-equivalent Permit Renewal Application, which was subsequently revised in July 2017.

#### 7. FACILITY SIZE AND TYPE FOR FEE PURPOSES

The Facility is categorized as a Small Treatment and Large Storage facility pursuant to Health and Safety Code section 25205.1. and for purposes of Health and Safety Code sections 25205.2 and 25205.19.

#### 8. Closure Cost Estimate

The Facility is owned by the federal government and is exempt from the requirements to provide a closure cost estimate and financial assurance mechanism for closure in accordance with California Code of Regulations, title 22, section 66264.140(c).

### **PART III. GENERAL CONDITIONS**

#### **1. PERMIT APPLICATION DOCUMENTS**

The following documents are hereby made a part of this Permit by reference:

1. RCRA Part "A" Application for the Naval Air Weapons Station, China Lake, dated November 2017;
2. RCRA Part "B" Permit Application for the PCB Storage Building at the Naval Air Weapons Station, China Lake (PCBSB Operation Plan), dated November 2017;
3. RCRA Part "B" Permit Application for the Hazardous Waste Storage & Transfer Facility at the Naval Air Weapons Station, China Lake (HWSTF Operation Plan), dated May 2018;
4. RCRA Part "B" Application for the Burro Canyon OB/OD Facility at the Naval Air Weapons Station, China Lake (BCTF Operation Plan), dated November 2017;
5. Spill Response Plan for the NAWS China Lake, dated August 2017; and
6. Monitoring Plan for the Burro Canyon OB/OD Facility at the Naval Air Weapons Station China Lake, CA, dated March 2017.

#### **2. EFFECT OF PERMIT**

- (a) The Permittee shall comply with the terms and conditions of this Permit and the provisions of the Health and Safety Code and California Code of Regulations (Cal. Code Regs.), title 22, division 4.5. The issuance of this Permit by DTSC does not release the Permittee from any liability or duty imposed by federal or state statutes or regulations or local ordinances, except the obligation to obtain this Permit. The Permittee shall obtain the permits required by other governmental agencies, including but not limited to, those required by the applicable land use planning, zoning, hazardous waste, air quality, water quality, and solid waste management laws for the construction and/or operation of the Facility.
- (b) The Permittee is permitted to treat and store hazardous wastes in accordance with the terms and conditions of this Permit. Any management of hazardous wastes not specifically authorized in this Permit is strictly prohibited.
- (c) Compliance with the terms and conditions of this Permit does not

constitute a defense to any action brought under any other law governing protection of public health or the environment, including, but not limited to, one brought for any imminent and substantial endangerment to human health or the environment.

- (d) DTSC's issuance of this Permit does not prevent DTSC from adopting or amending regulations that impose additional or more stringent requirements than those in existence at the time this Permit is issued and does not prevent the enforcement of these requirements against the Permittee.
- (e) Failure to comply with any term or condition set forth in the Permit in the time or manner specified herein will subject the Permittee to possible enforcement action including, but not limited to, penalties pursuant to Health and Safety Code section 25187.
- (f) Pursuant to Health and Safety Code sections 25186, 25186.05, 25186.2, 25186.2.5, and 25189.3; and California Code of Regulations, title 22, section 66270.43, DTSC may revoke or suspend this Permit or suspend the facility operation for various grounds, including, but not limited to, activities of the Permittee (or any trustee, officer, director, partner, or any person holding 5% or more of the equity in, or debt liability of, the Permittee's business concern) resulting in any violation of or non-compliance with various environmental statutes and regulations, or federal or state conviction significantly related to the fitness of the permit applicant or the Permittee; omission of information in the Permit application or during the permit issuance process or the Permittee's misrepresentation of any relevant facts at any time; conditions that may present an imminent and substantial endangerment to the public health or safety or the environment; and non-payment of facility fee.
- (g) In case of conflicts between the Operation Plans and the Permit, the Permit conditions take precedence.
- (h) This Permit includes and incorporates by reference any conditions of waste discharge requirements issued to the Facility by the State Water Resources Control Board or any of the California Regional Water Quality Control Boards and any conditions imposed pursuant to section 13227 of the Water Code.

3. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

DTSC prepared an Environmental Impact Report in 2008 analyzing a Class 3 Hazardous Waste Facility Permit Modification to allow the Facility to continue to



treat reactive hazardous waste by open burn/open detonation. In accordance with the requirements of Public Resources Code section 21000, et seq. and the CEQA Guidelines, California Code of Regulations, title 14, DTSC has prepared an environmental analysis evaluating whether the previously adopted 2008 Environmental Impact Report remains sufficient for purposes of DTSC's approval of the RCRA-equivalent Hazardous Waste Facility Permit for the Facility. DTSC has determined that none of the conditions described in CEQA Guidelines sections 15162, 15163, or 15164 calling for the preparation of a subsequent, supplemental, or addendum to the Environmental Impact Report or Negative Declaration have occurred and therefore, pursuant to Public Resources Code section 21166 and California Code of Regulations, title 14, section 15162, no additional CEQA documentation is necessary to support the issuance of this Permit.

4. ENVIRONMENTAL MONITORING

The Permittee shall comply with the applicable environmental monitoring and response program requirements of California Code of Regulations, title 22, division 4.5, chapter 14, articles 16 and 17.

5. ANNUAL HAZARDOUS WASTE REDUCTION AND MINIMIZATION CERTIFICATION

The Permittee shall certify annually that it has a hazardous waste reduction and minimization program and method in place and shall keep the annual certification as part of its Operating Record in accordance with California Code of Regulations, title 22, section 66264.73(b)(9).

6. ACCESS

- (a) DTSC, its contractors, employees, agents, and/or any United States Environmental Protection Agency representatives are authorized to enter and freely move about the Facility for the purposes of interviewing Facility personnel and contractors; inspecting records, operating logs, and contracts relating to the Facility; reviewing progress of the Permittee in carrying out the terms of Part VI of the Permit; conducting such testing, sampling, or monitoring as DTSC deems necessary; using a camera, sound recording, or other documentary-type equipment; verifying the reports and data submitted to DTSC by the Permittee; or confirming any other aspect of compliance with this Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5. The Permittee shall provide DTSC and its representatives access at all reasonable times to the Facility and any other property to which access is required for implementation of any provision of this

Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5, and shall allow such persons to inspect and copy all records, files, photographs, documents, including all sampling and monitoring data, that pertain to work undertaken pursuant to the entire Permit or undertake any other activity necessary to determine compliance with applicable requirements.

(b) Nothing in this Permit shall limit or otherwise affect DTSC's right to access and entry pursuant to any applicable State or federal laws and regulations.

7. Government Liabilities

The State of California or DTSC shall not be liable for injuries or damages to persons or property resulting from acts or omissions by the Permittee or its agents in carrying out activities pursuant to this Permit, nor shall the State of California or DTSC be held as a party to any contract entered into by the Permittee or its agents in carrying out activities pursuant to this Permit.

8. Severability

If any provision, term, or condition of this Permit is for any reason held to be invalid, illegal, or unenforceable, the validity, legality, and enforceability of the remaining provisions, terms, and conditions of this Permit shall in no way be affected, impaired or invalidated thereby and shall remain in full force and effect.

#### **PART IV. PERMITTED UNITS AND ACTIVITIES**

This Permit authorizes operation only of the Facility units and activities listed below. The Permittee shall not treat, store or otherwise manage hazardous waste in any unit other than those specified in this Part IV. Any modifications to a unit or activity authorized by this Permit require the written approval of DTSC in accordance with the permit modification procedures set forth in California Code of Regulations, title 22, division 4.5.

**UNIT NAME:** Unit 1

PCB Storage Building (PCBSB)

**LOCATION:**

The Unit consists of the following: (1) a building referred to as the PCB Storage Building (Building), (2) Loading/Unloading Area, and (3) Concrete Pad with Berm (see Figure 2.0 in Appendix A and Figure 3.0 in Appendix B). The Building is identified as Building 02682 and is located 400 feet northwest of the intersection of Knox Road and Forrestal Street and 1200 feet southwest of the intersection of Knox Road and Inyokern Road within the fence line of the Public Works Compound in Kern County. The Loading/Unloading Area is adjacent to the Building to the west. The Concrete Pad with Berm is located 20 feet south of the Building and Loading/Unloading Area.

**ACTIVITY TYPE:**

Storage in containers

**ACTIVITY DESCRIPTION:**

This Unit is used to store PCB waste generated at the Facility, including fluids and solid waste, and to store and drain PCB Articles as defined in Code of Federal Regulations, title 40, section 761.3 (transformers) prior to being shipped offsite to an appropriate treatment and or disposal facility. PCB wastes are received in the Loading/Unloading Area and are stored in the Building. The Loading/Unloading Area and Concrete Pad with Berm are used to drain PCB Articles.

**PHYSICAL DESCRIPTION:**

The Building is fully secured and enclosed and is 20 feet wide by 40 feet long by 12 feet high. The floor of the Building has a six-inch berm made of concrete with an impervious epoxy coating. The concrete paved Loading/Unloading Area is 12 feet 9 inches wide by 26 feet long. The Concrete Pad with Berm is 20 feet wide by 20 feet long and contains a 6-inch berm.

MAXIMUM CAPACITY:

The maximum storage capacity in the Building is a combined total of 32 55-gallon containers and equivalent-sized PCB Articles.

WASTE TYPES:

PCB Articles (transformers) and other PCB-contaminated fluids (drummed dielectric fluids) and solid waste (spill cleanup material, fluorescent light ballasts, small capacitors).

RCRA HAZARDOUS WASTE CODES:

None

CALIFORNIA HAZARDOUS WASTE CODES:

261, 731

UNIT-SPECIFIC SPECIAL CONDITIONS:

1. The Permittee shall not store containers including Articles in the Loading/Unloading Area and Concrete Pad with Berm.
2. The Permittee shall not store California-only PCB wastes (5-49 parts per million (ppm)) for more than 1 year. The Permittee shall not store Toxic Substances Control Act (TSCA)-only PCB waste ( $\geq 50$  ppm) for more than 9 months.
3. The Permittee shall not stack a container holding hazardous waste on top of any other container.

AIR EMISSION STANDARDS SUBPART CC:

This Unit is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5.

UNIT NAME: Unit 2

Container Storage Unit

LOCATION:

The Unit is identified as Building 01389 and is located on Iwo Jima Road, between Sandquist Road and Lauritsen Road within the fence line of the Hazardous Waste Storage and Transfer Facility (HWSTF) in Kern County (see Figure 2.0 in Appendix A and Figure 4.0 in Appendix B). The GPS coordinates of the Unit are:

West corner – latitude 35° 39' 47.0" N and longitude 117° 39' 42.6" W

North corner – latitude 35° 39' 47.6" N and longitude 117° 39' 40.4" W

South corner – latitude 35° 39' 46.7" N and longitude 117° 39' 42.5" W

East corner – latitude 35° 39' 47.5" N and longitude 117° 39' 40.4" W

ACTIVITY TYPE:

Storage in Containers

ACTIVITY DESCRIPTION:

This Unit consists of two areas: (1) Drum Storage Area and (2) Bin Storage Area. This Unit is used to store hazardous waste generated onsite for no more than one year prior to transport to an authorized off-site treatment and or disposal facility. The hazardous waste is received in the Receiving Bay or Transfer Dock within the Unit.

PHYSICAL DESCRIPTION:

The Drum Storage Area, (which is a 55-foot wide by 176-foot long, secured, open area), is covered with a metal canopy (Figure 4.0 A in Appendix B). The Drum Storage Area floor and eight (8)-inch berm that surrounds the Drum Storage Area are composed of concrete and have an impervious epoxy coating. The Drum Storage Area consists of twelve (12) storage bays each equipped with its own secondary containment system including a sump.

The Bin Storage Area, which includes the Transfer Dock, is 37.7 feet wide by 45.3 feet long and is equipped with its own secondary containment system.

MAXIMUM CAPACITY:

The maximum storage capacity of the Drum Storage Area is 720 55-gallon containers. The maximum storage capacity of the Bin Storage Area is 80 cubic yards. The maximum annual quantity of hazardous waste stored in the Unit is 1,000 tons.

WASTE TYPES:

Hazardous waste generated onsite from research and development laboratories, pilot manufacturing facilities, machine shops, vehicle and aircraft maintenance, and aircraft/weapons testing areas, including antifreeze, absorbent, oil, paint thinner, paint, solvents, spent aerosol cans, batteries, lab chemicals and other miscellaneous hazardous wastes.

RCRA HAZARDOUS WASTE CODES:

The RCRA Hazardous Waste Codes for the Drum Storage Area are D001 through D043, F001 through F012, F027, "P" wastes, "U" wastes.

The RCRA Hazardous Waste Codes for the Bin Storage Area are D001 through D008, D010 through D043, F001 through F012, F027, "P" wastes, "U" wastes.

CALIFORNIA HAZARDOUS WASTE CODES:

121, 122, 123, 131, 132, 133, 134, 135, 141, 151, 171, 172, 181, 211, 212, 213, 214, 221, 222, 223, 231, 241, 271, 272, 281, 291, 331, 341, 342, 343, 351, 352, 451, 461, 511, 512, 513, 521, 541, 551, 561, 611, 612, 711, 721, 722, 723, 724, 725, 726, 727, 728, 741, 751, 791, 792, and 801

UNIT SPECIFIC SPECIAL CONDITIONS:

1. The Permittee shall not store incompatible waste within the same Bay.
2. The Permittee shall not stack containers, with a capacity of 30 gallons or more, holding hazardous waste more than two containers high. The Permittee shall not stack containers, with a capacity of 5 gallons, holding hazardous waste more than three containers high.
3. The Permittee shall store all containers holding hazardous waste on pallets. The Permittee shall not store more than four (4) 55-gallon drums on each pallet.
4. The Permittee shall maintain a minimum of 49 inches of aisle space between pallets that have containers holding or designed to hold hazardous waste in Bay 1. The Permittee shall maintain a minimum of 28 inches of aisle space between pallets that have containers holding or designed to hold hazardous waste in Bays 2, 3, 4, 5, and 6. The Permittee shall maintain a minimum of 36 inches of aisle space between pallets that have containers holding or designed to hold hazardous waste in Bays 7, 8, 9, 10, 11, and 12.

AIR EMISSION STANDARDS SUBPART CC:

This Unit is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5.

UNIT NAME: Unit 3

Drum Crusher

LOCATION:

The Unit is in the south-east end of Building 01389 between the Storage & Packing Rooms and the Receiving Bay and is located on Iwo Jima Road, between Sandquist Road and Lauritsen Road within the fence line of the Hazardous Waste Storage and Transfer Facility within the Container Storage Unit (Unit 2) in Kern County (see Figure 4.0 in Appendix A). The GPS coordinates of the Unit are latitude 35.662993 N and longitude 117.6611637 W.

ACTIVITY TYPE:

Treatment in Miscellaneous Unit

ACTIVITY DESCRIPTION:

This Unit is used to crush 5- to 85-gallon plastic, fiberboard, and metal containers that held solid California-only (non-RCRA) hazardous wastes or hazardous materials and are not designated as California-empty. Containers are placed into the crusher by hand. Crushing is accomplished using a hydraulic-actuated drum crusher with electro-mechanical control. The crusher uses a hydraulic ram to flatten the containers. Following compaction, the crushed containers are removed by hand and placed in the Bin Storage Area within Unit 2.

PHYSICAL DESCRIPTION:

The Unit is a SRS Engineering Corps manufactured steel drum crusher (Model #CMP-40EXP) that is box shaped, has a closable door, and is large enough to hold an 85-gallon drum. The Unit is located within a secondary containment structure.

MAXIMUM CAPACITY:

One (1) 85-gallon drum

WASTE TYPES:

Containers that are not designated as CA-empty and held CA-only (non-RCRA) hazardous wastes or hazardous materials generated onsite from research and development laboratories, pilot manufacturing facilities, machine shops, vehicle and aircraft maintenance and aircraft/weapons testing.



RCRA HAZARDOUS WASTE CODES:

Not Applicable

CALIFORNIA HAZARDOUS WASTE CODES:

141, 181, 281, 291, 331, 352

UNIT-SPECIFIC SPECIAL CONDITIONS:

The Permittee shall inspect the Unit at least once each week to detect corrosion or releases of waste. The Permittee shall document the inspection results in the operating record.

AIR EMISSION STANDARDS SUBPART CC:

This Unit is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5.

UNIT NAME: Unit 4

Liquid Petroleum Waste Tank No. 1

LOCATION:

The Unit is identified as Building 02663 and is located on Iwo Jima Road, between Sandquist Road and Lauritsen Road within the fence line of the Hazardous Waste Storage and Transfer Facility in Kern County (see Figure 2.0 in Appendix A). The GPS coordinates of the Unit are:

West corner – latitude 35°39'45.9" N and longitude 117° 39'44.5" W  
North corner – latitude 35°39'46.0" N and longitude 117° 39'44.0" W  
South corner – latitude 35° 39'45.5" N and longitude 117° 39'44.2" W  
East corner – latitude 35° 39'45.6" N and longitude 117° 39'44.1" W

ACTIVITY TYPE:

Storage in Tank

ACTIVITY DESCRIPTION:

This Unit is used for storage of liquid RCRA hazardous waste generated on-site for no more than one year prior to transport to an authorized off-site treatment and or disposal facility. Hazardous waste is transferred to this Unit in the Concrete Loading/Unloading Area directly from vacuum trucks using gravity feed.

PHYSICAL DESCRIPTION:

This Unit consists of one 4,000-gallon aboveground storage tank (see Figure 4.0B). The tank is 5 feet 4 inches in diameter and 25 feet 4 inches long. The tank is double-walled and constructed of steel. The tank is anchored onto a 12-inch-thick concrete foundation.

MAXIMUM CAPACITY:

The maximum storage capacity of the tank is 4,000 gallons of liquid RCRA hazardous waste. The maximum annual permitted storage capacity is 20,000 gallons (83 tons) of liquid RCRA hazardous waste.

WASTE TYPES:

The liquid RCRA hazardous waste is generated onsite from vehicle and aircraft maintenance, aircraft defueling (jet fuel), and separated oil and fuel from oil/water

separators/tanks.

RCRA HAZARDOUS WASTE CODES:

D001, D008, D018, D039, and F001

CALIFORNIA HAZARDOUS WASTE CODES:

221, 222, 223, 331, 341, and 343

AIR EMISSION STANDARDS SUBPART CC:

This Unit is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5.

UNIT NAME: Unit 5

Liquid Petroleum Waste Tank No. 2

LOCATION:

The Unit is identified as Building 02663 and is located on Iwo Jima Road, between Sandquist Road and Lauritsen Road within the fence line of the Hazardous Waste Storage and Transfer Facility in Kern County (see Figure 2.0 in Appendix A). The GPS coordinates of the Unit are:

West corner – latitude 35°39'45.9" N and longitude 117° 39'44.5" W  
North corner – latitude 35°39'46.0" N and longitude 117° 39'44.0" W  
South corner – latitude 35° 39'45.5" N and longitude 117° 39'44.4" W  
East corner – latitude 35° 39'45.7" N and longitude 117° 39'42.9" W

ACTIVITY TYPE:

Storage in Tank

ACTIVITY DESCRIPTION:

This Unit is used for storage of liquid non-RCRA hazardous waste generated on-site prior to transport to an authorized off-site treatment and or disposal facility. Hazardous waste is transferred to this Unit in the Concrete Loading/Unloading Area directly from vacuum trucks using gravity feed. Hazardous waste shall not be stored more than one year prior to shipment off-site.

PHYSICAL DESCRIPTION:

This Unit consists of one 4,000-gallon aboveground storage tank (see Figure 4.0B). The tank is 5 feet 4 inches in diameter and 25 feet 4 inches long. The tank is double-walled and constructed of steel. The tank is anchored onto a 12-inch-thick concrete foundation.

MAXIMUM CAPACITY:

The maximum design storage capacity of the tank is 4,000 gallons of liquid non-RCRA hazardous waste. The maximum annual permitted storage capacity is 35,000 gallons (146 tons) of liquid non-RCRA hazardous waste.

WASTE TYPES:

The liquid non-RCRA hazardous waste generated onsite from the periodic maintenance (cleanout) of oil/water separators/tanks.

RCRA HAZARDOUS WASTE CODES:

Not Applicable

CALIFORNIA HAZARDOUS WASTE CODES:

133, 134, 135, 222, and 343

AIR EMISSION STANDARDS SUBPART CC:

This Unit is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5.

UNIT NAME: Unit 6

Open Detonation (OD) Unit

LOCATION:

The Unit is located at the Burro Canyon Open Burn (OB)/OD Facility at the North Range near the southern border of Inyo County. The Unit is approximately 12 miles northeast of the China Lake Main site and approximately 3 miles directly east of G-2 Tower Road. The GPS coordinates of the Unit are:

Northwest corner – latitude 35°48'17.8" N and longitude 117°32'48.1" W  
Northeast corner – latitude 35°48'16.2" N and longitude 117°32'44.7" W  
Southeast corner – latitude 35°48'15.4" N and longitude 117°32'45.1" W  
Southwest corner – latitude 35°48'15.8" N and longitude 117°32'48.7" W

ACTIVITY TYPE:

Treatment in Miscellaneous Unit

ACTIVITY DESCRIPTION:

This Unit is used to treat reactive waste that is generated from the Facility's research, development, test, and evaluation activities. The reactive hazardous waste received for treatment is placed into the Unit on the ground by hand or forklift. The reactive hazardous waste is configured to maximize destruction during detonation. The reactive hazardous waste is destroyed by detonation using added explosive charges, which are initiated by an igniter connected to a time fuze. After each treatment event, the immediate area is inspected for untreated reactive hazardous waste. Reactive hazardous waste that has not been rendered safe is retreated by open detonation. Periodically, the Unit is graded to level the surface. During this grading activity, metal fragments are collected and processed per the Facility's policies for management of Material Potentially Presenting an Explosive Hazard.

PHYSICAL DESCRIPTION:

The Unit is a 1.03-acre area in the center of a naturally-occurring bowl-shaped valley, surrounded by rugged terrain. The floor of the Unit is the sandy alluvial soil of the canyon. The reactive hazardous waste is detonated on the ground. No pad or liner is used.

MAXIMUM CAPACITY:

For purposes of determining event and annual treatment quantities, the quantity of the

hazardous waste treated is defined as the weight of the energetic (propellants, explosives, and pyrotechnics), also known as the Explosive Weight, and the weight of the non-energetic components of the wastestream (e.g., packaging, rags, and gloves), with the following requirements:

1. The maximum treatment quantity per event is 15,000 pounds of energetics and 15,000 pounds of non-energetic components of the wastestream. DTSC may approve of an event up to 50,000 pounds under special circumstances, such as a security issue, extreme safety hazard, or national defense emergency. The Permittee shall notify DTSC and obtain approval before the special limit of 50,000 pounds shall be in effect.
2. Only one OD or OB event shall be completed per day, unless prior approval is obtained from DTSC. Approval shall be requested two weeks in advance of the scheduled event. DTSC may approve more than one OD or OB event per day in circumstances in which the Permittee may be otherwise prevented from complying with storage limits or other special circumstances, such as a national emergency.
3. The maximum annual quantity for OD and OB combined shall not exceed 5,475,000 pounds.

WASTE TYPES:

Reactive hazardous waste generated onsite from research, development, test, and evaluation activities.

RCRA HAZARDOUS WASTE CODES:

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D029, D030, D032, D033, D034, D035, D036, D039, D040, D041, D042, F002, F003, F004, F005, K044, K045, K046, K047, P006, P009, P042, P065, P081, P112, U117, and U213

CALIFORNIA HAZARDOUS WASTE CODES:

181, 211, 212, 213, 214, 281, 343, 352, 551, and 611

UNIT SPECIFIC SPECIAL CONDITIONS:

1. The Permittee shall quantify the hazardous waste that is treated in this Unit using the energetic family categories as defined in the DTSC-approved Human Health Risk Assessment and provide the dates of the treatment events and grading events in a tracking database report (Tracking Report) in a format designed to

document that the maximum event and annual treatment quantity limits have not been exceeded. The Permittee shall submit the Tracking Report to DTSC five years after the effective date of this Permit and every five years thereafter.

2. Per Occupational Safety and Health Administration regulations found in Code of Federal Regulations, title 29, section 1910.109(e)(1)(v), the Permittee shall only perform open detonations between ½ hour after sunrise until ½ hour before sunset.
3. The Permittee shall collect the following meteorological data from the Greenpoint Monitoring Station (unless otherwise noted) that are required for air dispersion modeling and noise levels predictions:
  - a. wind speed;
  - b. wind direction;
  - c. temperature;
  - d. stability class (from Baker Range Monitoring Station); and
  - e. upper air data (may be obtained from approved offsite upper air stations).

The Permittee shall retain all meteorological data collected for the duration of the Permit.

4. The Permittee shall operate, maintain, and calibrate the Baker Range and Greenpoint Monitoring Stations in accordance with the DTSC-approved Meteorological Monitoring Plan. The Permittee shall conduct performance audits of the Baker Range, G1, and Greenpoint Monitoring Stations, every six months in accordance with Quality Assurance Handbook for Air Pollution Measurement Systems (EPA, 1995), Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements, Version 1.0 (EPA Draft, October 2006), Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA, 2000), and Ambient Monitoring Guidelines for Prevention of Significant Deterioration (EPA, 1987), and any revisions and amendments to these documents.
5. The Permittee shall implement DTSC-approved environmental monitoring programs, including sampling, analysis, statistical and trend analysis for soil, ecological receptors, groundwater, and other media as specified by DTSC. The plan for the monitoring programs shall include actions that will be taken in the event that monitoring results demonstrate an increase of contamination or risk to any media.
6. The Permittee shall ensure that treatment residues in soil shall not exhibit a hazardous waste characteristic as defined by Cal. Code Regs., title 22, division 4.5, chapter 11.



7. The Permittee shall inform DTSC within one month of receipt of a complaint attributable to noise from an OD treatment event.
8. Five years after the effective date of this Permit and every five years thereafter, the Permittee shall submit a report for DTSC's approval on the efforts on the part of the Permittee to identify, evaluate, and test methods of sampling air emissions from OD events. The report shall include a certification that the information is the best and most current information available to the Permittee.
9. Two years after the effective date of this Permit and every two years thereafter, the Permittee shall submit a report for DTSC's approval on the status of alternative technologies to OD that are appropriate for use at the Facility. The report shall include a certification that the information is the best and most current information available to the Permittee.
10. Five years after the effective date of this Permit and every five years thereafter, the Permittee and DTSC shall conduct a review of the Permit and all supporting documentation to assure that the Permit continues to comply with the current state of control and measurement technology as well as changes in applicable regulations. The supporting information to be reviewed shall include emission factors, toxicity criteria, air dispersion modeling, the Human Health Risk Assessment, the Ecological Risk Assessment, results of sampling and analysis of all media, noise prediction modeling, and any other information determined to be necessary by DTSC.
11. The Permittee shall continue to implement the terms of the current Biological Opinion for the Naval Air Weapons Station, China Lake for the desert tortoise issued by the U.S. Fish and Wildlife Service in 1995 and any future Biological Opinion relevant to Burro Canyon. All personnel working at the Burro Canyon OB/OD facility shall have completed a desert tortoise awareness briefing following the requirements delineated in the Biological Opinion. Personnel possessing the minimum qualifications for unexploded ordinance technicians shall conduct a visual survey of the Burro Canyon OB/OD facility (cleared area and areas visible from the periphery of the cleared area) prior to each use of the facility. Survey findings shall be documented in the event log. Should desert tortoises be encountered in the area potentially affected by OB/OD operations measures shall be implemented in accordance with the Biological Opinion and delineated in the required annual report. Desert tortoises noted in any area potentially affected by OB/OD operations shall be relocated by approved personnel prior to any event initiation. All such encounters shall be documented in the event log as well as in the annual report.
12. The annual quantity for OD and OB combined shall not cause a carcinogenic risk

threshold of  $1 \times 10^{-6}$  (1 in a million) to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.

13. The annual quantity for OD and OB combined shall not cause a non-carcinogenic chronic hazard index of 1.0 to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.
14. The event quantity for OD shall not cause an acute hazard index of 1.0 to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.
15. The annual quantity for OD shall not cause community noise equivalent levels (average noise exposure over a 24-hour period) to exceed 60 dB at any offsite location. The noise analysis was approved by DTSC as well as the noise mitigation plan (Appendix L of the Operation Plan).
16. The event quantity for OD shall not cause peak sound levels to exceed 128 dB at any offsite location.

AIR EMISSION STANDARDS SUBPART CC:

The Facility is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5. These standards do not apply to the OD Unit.

UNIT NAME: Unit 7

Open Burn (OB) Unit

LOCATION:

The Unit is located at the Burro Canyon OB/OD Facility at the North Range near the southern border of Inyo County. The Unit is approximately 12 miles northeast of the China Lake Main site and approximately 3 miles directly east of G-2 Tower Road. The GPS coordinates of the Unit are:

Northwest corner – latitude 35°48'16.9" N and longitude 117°32'52.0" W  
Northeast corner – latitude 35°48'16.9" N and longitude 117°32'51.8" W  
Southeast corner – latitude 35°48'16.6" N and longitude 117°32'51.8" W  
Southwest corner – latitude 35°48'16.6" N and longitude 117°32'52.0" W

ACTIVITY TYPE:

Treatment in Miscellaneous Unit

ACTIVITY DESCRIPTION:

This Unit is used to treat reactive waste that is generated from the Facility's research, development, test, and evaluation activities. The reactive hazardous waste received for treatment is placed into the burn pan by hand. Diesel and/or wood may be added to supplement combustion. The burning is initiated with an igniter connected to a time fuze that is connected to a bag of smokeless powder (or similar material) soaked in diesel fuel. Residual ash is removed to a container immediately after the burn is safe to approach. After removal of the ash, a dry decontamination of the burn pan is conducted by wiping it with rags. The rags are placed into the container with the ash residue and immediately transported to the Container Storage Unit.

PHYSICAL DESCRIPTION:

The Unit consists of a burn pan that is approximately 8 feet wide, 20 feet long, and 2 feet 3 inches high. The burn pan is constructed of one-inch steel plates. The burn pan is raised 1 foot above a 30 foot by 18 foot by 8 inch thick concrete pad. The concrete pad extends 5 feet on all sides of the pan. The concrete pad is lined with a steel liner. The sides of the steel liner are higher than the concrete containment.

MAXIMUM CAPACITY:

For the purposes of determining event and annual treatment quantities, the quantity of the hazardous waste treated is defined as the weight of the energetics, also known as

the Explosive Weight, and the weight of the non-energetic components of the wastestream (e.g., packaging, rags, and gloves), with the following requirements:

1. The maximum treatment quantity per event is 1,000 pounds of energetic and 1,000 pounds of non-energetic components of the wastestream.
2. Only one OD or OB event shall be completed per day, unless prior approval is obtained from DTSC. Approval shall be requested two weeks in advance of the scheduled event. DTSC may approve more than one OD or OB event per day in circumstances in which the Permittee may be otherwise prevented from complying with storage limits or other special circumstances, such as a national emergency.
3. The maximum annual quantity for OD and OB combined shall not exceed 5,475,000 pounds.

WASTE TYPES:

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D029, D030, D032, D033, D034, D035, D036, D039, D040, D041, D042, F002, F003, F004, F005, K044, K045, K046, K047, P006, P009, P042, P065, P081, P112, U117, and U213

CALIFORNIA HAZARDOUS WASTE CODES:

181, 211, 212, 213, 214, 281, 343, 352, 551, and 611

UNIT SPECIFIC SPECIAL CONDITIONS:

1. The Permittee shall quantify the hazardous waste that is treated in this Unit using the energetic family categories as defined in the DTSC-approved Human Health Risk Assessment and provide the dates of the treatment events and grading events in a tracking database report (Tracking Report) in a format designed to document that the maximum event and annual treatment quantity limits have not been exceeded. The Permittee shall submit the Tracking Report to DTSC five years after the effective date of this Permit and every five years thereafter.
2. Per Occupational Safety and Health Administration regulations found in Code of Federal Regulations, title 29, section 1910.109(e)(1)(v), the Permittee shall only perform open burns between ½ hour after sunrise until ½ hour before sunset.
3. The Permittee shall collect the following meteorological data from the Greenpoint Monitoring Station (unless otherwise noted) that are required for air dispersion modeling and noise levels predictions:

- a. wind speed;
- b. wind direction;
- c. temperature;
- d. stability class (from Baker Range Monitoring Station); and
- e. upper air data (may be obtained from approved offsite upper air stations).

The Permittee shall retain all meteorological data collected for the duration of the Permit.

4. The Permittee shall operate, maintain, and calibrate the Baker Range and Greenpoint Monitoring Stations in accordance with the DTSC-approved Meteorological Monitoring Plan. The Permittee shall conduct performance audits of the Baker Range, G1, and Greenpoint Monitoring Stations, every six months in accordance with Quality Assurance Handbook for Air Pollution Measurement Systems (EPA, 1995), Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements, Version 1.0 (EPA Draft, October 2006), Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA, 2000), and Ambient Monitoring Guidelines for Prevention of Significant Deterioration (EPA, 1987), and any revisions and amendments to these documents.
5. The Permittee shall implement DTSC-approved environmental monitoring programs, including sampling, analysis, statistical and trend analysis for soil, ecological receptors, groundwater, and other media as specified by DTSC. The plan for the monitoring programs shall include actions that will be taken in the event that monitoring results demonstrate an increase of contamination or risk to any media.
6. Five years after the effective date of this Permit and every five years thereafter, the Permittee shall submit a report for DTSC's approval on the efforts on the part of the Permittee to identify, evaluate, and test methods of sampling air emissions from OB events. The report shall include a certification that the information is the best and most current information available to the Permittee.
7. Two years after the effective date of this Permit and every two years thereafter, the Permittee shall submit a report for DTSC's approval on the status of alternative technologies to OB that are appropriate for use at the Facility. The report shall include a certification that the information is the best and most current information available to the Permittee.
8. Five years after the effective date of this Permit and every five years thereafter, the Permittee and DTSC shall conduct a review of the Permit and all supporting documentation to assure that the Permit continues to comply with the current

- state of control and measurement technology as well as changes in applicable regulations. The supporting information to be reviewed shall include emission factors, toxicity criteria, air dispersion modeling, the Human Health Risk Assessment, the Ecological Risk Assessment, results of sampling and analysis of all media, noise prediction modeling, and any other information determined to be necessary by DTSC.
9. The Permittee shall implement the terms of the current Biological Opinion for the Naval Air Weapons Station, China Lake for the desert tortoise issued by the U.S. Fish and Wildlife Service in 1995 and any future Biological Opinion relevant to Burro Canyon. All personnel working at the Burro Canyon OB/OD facility shall have completed a desert tortoise awareness briefing following the requirements delineated in the Biological Opinion. Personnel possessing the minimum qualifications for unexploded ordnance technicians shall conduct a visual survey of the Burro Canyon OB/OD facility (cleared area and areas visible from the periphery of the cleared area) prior to each use of the facility. Survey findings shall be documented in the event log. Should desert tortoises be encountered in the area potentially affected by OB/OD operations measures shall be implemented in accordance with the Biological Opinion and delineated in the required annual report. Desert tortoises noted in any area potentially affected by OB/OD operations shall be relocated by approved personnel prior to any event initiation. All such encounters shall be documented in the event log as well as in the annual report.
  10. The annual quantity for OD and OB combined shall not cause a carcinogenic risk threshold of  $1 \times 10^{-6}$  (1 in a million) to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.
  11. The annual quantity for OD and OB combined shall not cause a non-carcinogenic chronic hazard index of 1.0 to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.
  12. The event quantity for OB shall not cause an acute hazard index of 1.0 to be exceeded at any offsite location, as calculated in the approved Human Health Risk Assessment and documented in a format approved by DTSC.

AIR EMISSION STANDARDS SUBPART CC:

The Facility is subject to the applicable requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5. These standards do not apply to the OB Unit.

**PART V. SPECIAL CONDITIONS**

1. The Permittee is prohibited from conducting any hazardous waste transfer, storage, treatment or other management activity unless it is specifically described in this Permit or otherwise authorized by law.
2. The Permittee shall not store any hazardous waste beyond one year unless the Permittee proves to DTSC that such storage is solely for the purpose of accumulating certain quantities as are necessary to facilitate proper recovery, treatment or disposal pursuant to California Code of Regulations, title 22, section 66268.50.
3. In the event that any cracks, gaps or tears are detected in a hazardous waste management unit or a secondary containment system or device, repairs shall be initiated as soon as possible and completed within one week of discovery of the problem. The Permittee shall notify DTSC within 24 hours whenever a crack, gap or tear is found. Within seven days of discovery of the problem, the Permittee shall notify DTSC in writing of the corrective measures that have been taken.
4. Any non-hazardous waste that is stored in a unit authorized by this Permit for management of hazardous waste shall be subject to the conditions of this Permit, including volume calculations, compatibility and inspections.
5. The Permittee shall collect all rainwater and wash water accumulated within the authorized units and determine whether it is hazardous waste; if it is hazardous waste, the Permittee shall manage it accordingly.
6. The Facility shall not be a designated Treatment, Storage, or Disposal Facility on the manifests for any exempt transfer activities conducted pursuant to California Code of Regulations, title 22, section 66263.18.
7. For the purpose of calculating the permitted maximum capacity limitations for storage and for secondary containment, all containers in the authorized units are assumed to be full, and all hazardous waste that is stored or located in an authorized unit shall be included in the calculation for that unit, including any hazardous waste that is covered by the transfer facility exemption pursuant to California Code of Regulations, title 22, section 66263.18.
8. The Permittee shall conduct sampling activities only within an authorized unit or within a secondary containment system or device of a loading and unloading area designated in the permit.
9. The State of California has not adopted the Military Munitions Rule. Therefore,

the Permittee shall make all hazardous waste determinations and manage all hazardous waste pursuant to the applicable requirements of California Hazardous Waste Control Law, Health and Safety Code, division 20, chapter 6.5 and California Code of Regulations, title 22, division 4.5.

10. The Permittee shall submit an analysis of the dioxin/furan content of OB ash to DTSC within 3 months of the first OB event that occurs after the effective date of this Permit.



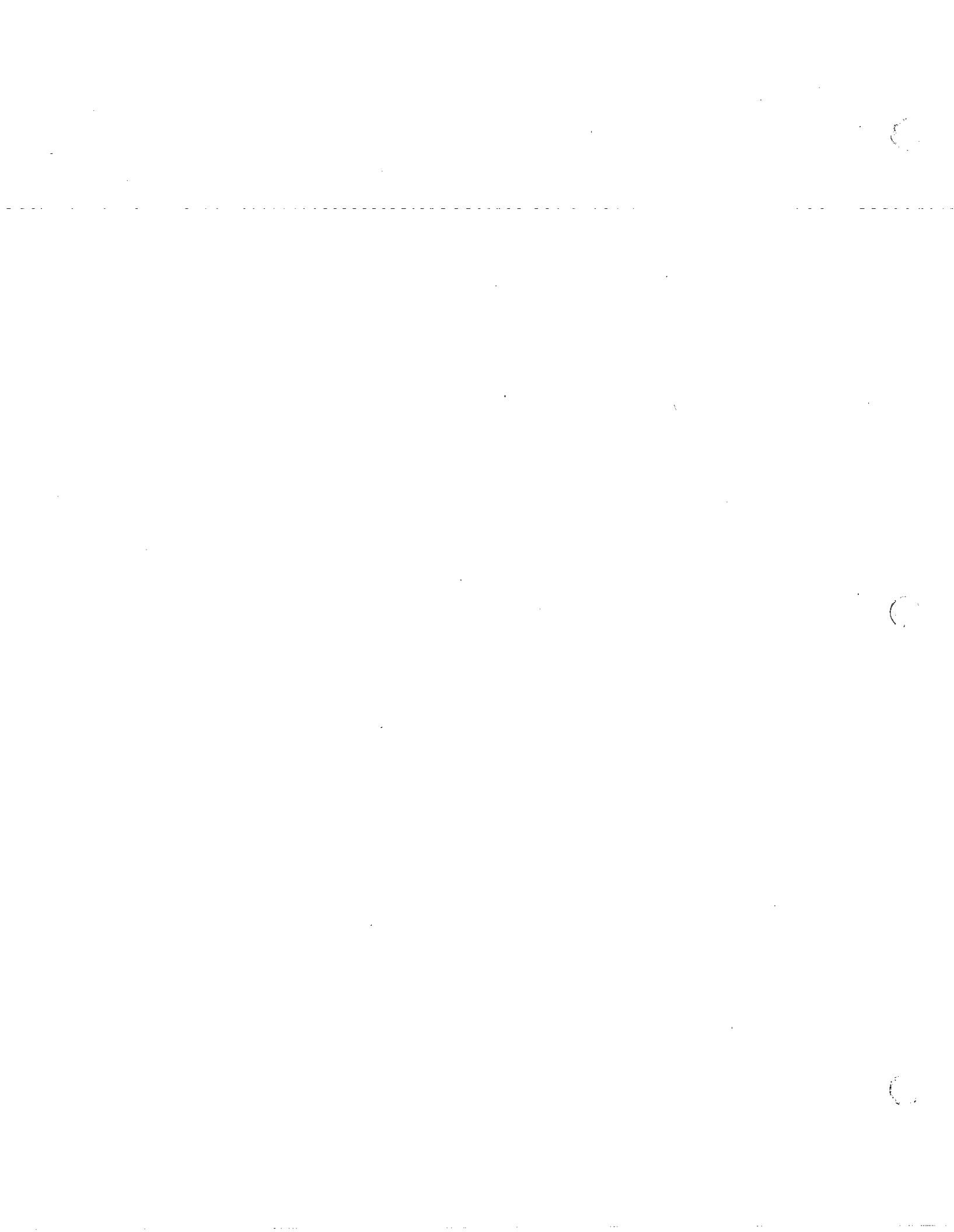
## **PART VI. CORRECTIVE ACTION**

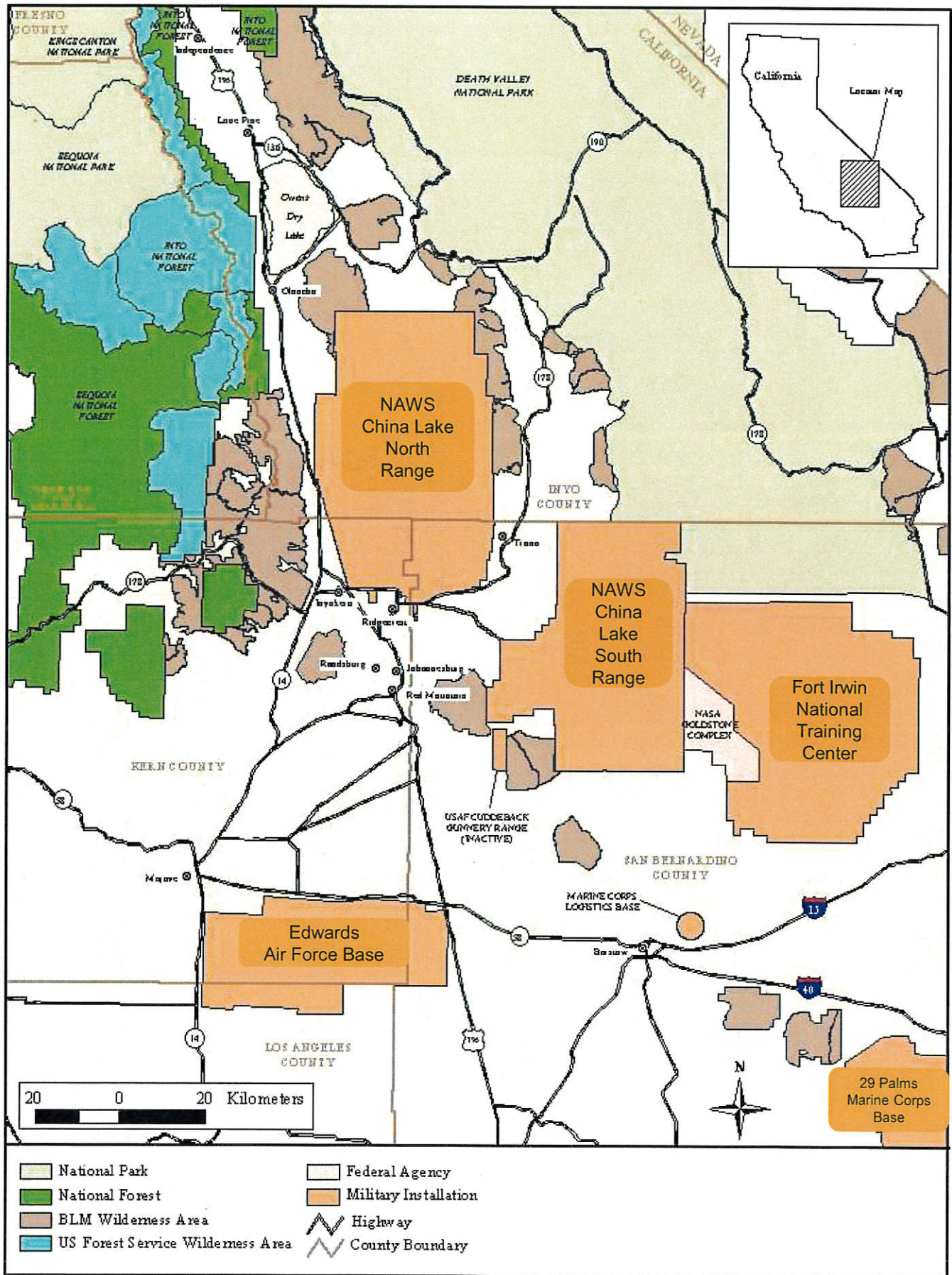
Corrective action activities at the Facility includes performing Visual Site Inspections (VSI) and Sampling Site Investigations (SSI) for several RCRA areas/sites within the Facility. Several areas currently being investigated, as of July 2017, using VSI and SSI, include Propulsion Laboratory, Airfield, Mainsite, Public Works, Baker Range, and George Range.

1. The Permittee shall conduct corrective action at the Facility pursuant to Health and Safety Code sections 25187 and 25200.10. Corrective action shall be carried out under a Federal Facility Site Remediation Agreement executed on November 7, 2003, between the U.S. Department of the Navy, DTSC, and the Lahontan Regional Water Quality Control Board.
2. To the extent that work being performed pursuant to Part VI of the Permit must be done on property not owned or controlled by the Permittee, the Permittee shall use its best efforts to obtain access agreements necessary to complete work required by this Part of the Permit from the present owner(s) of such property within 30 days of approval of any work plan for which access is required. "Best efforts" as used in this paragraph shall include, at a minimum, a certified letter from the Permittee to the present owner(s) of such property requesting access agreement(s) to allow the Permittee and DTSC and its authorized representatives access to such property and the payment of reasonable sums of money in consideration of granting access. The Permittee shall provide DTSC with a copy of any access agreement(s). In the event that agreements for the access are not obtained within 30 days of approval of any workplan for which access is required, or of the date that the need for access becomes known to the Permittee, the Permittee shall notify DTSC in writing within 14 days thereafter regarding both efforts undertaken to obtain access and its failure to obtain such agreements. In the event DTSC obtains access, the Permittee shall undertake approved work on such property. If there is any conflict between this permit condition on access and the access requirements in any agreement entered into between DTSC and the Permittee, this permit condition on access shall govern.
3. Nothing in Part VI of the Permit shall be construed to limit or otherwise affect the Permittee's liability and obligation to perform corrective action including corrective action beyond the facility boundary, notwithstanding the lack of access. DTSC may determine that additional on-site measures must be taken to address releases beyond the Facility boundary if access to off-site areas cannot be obtained.

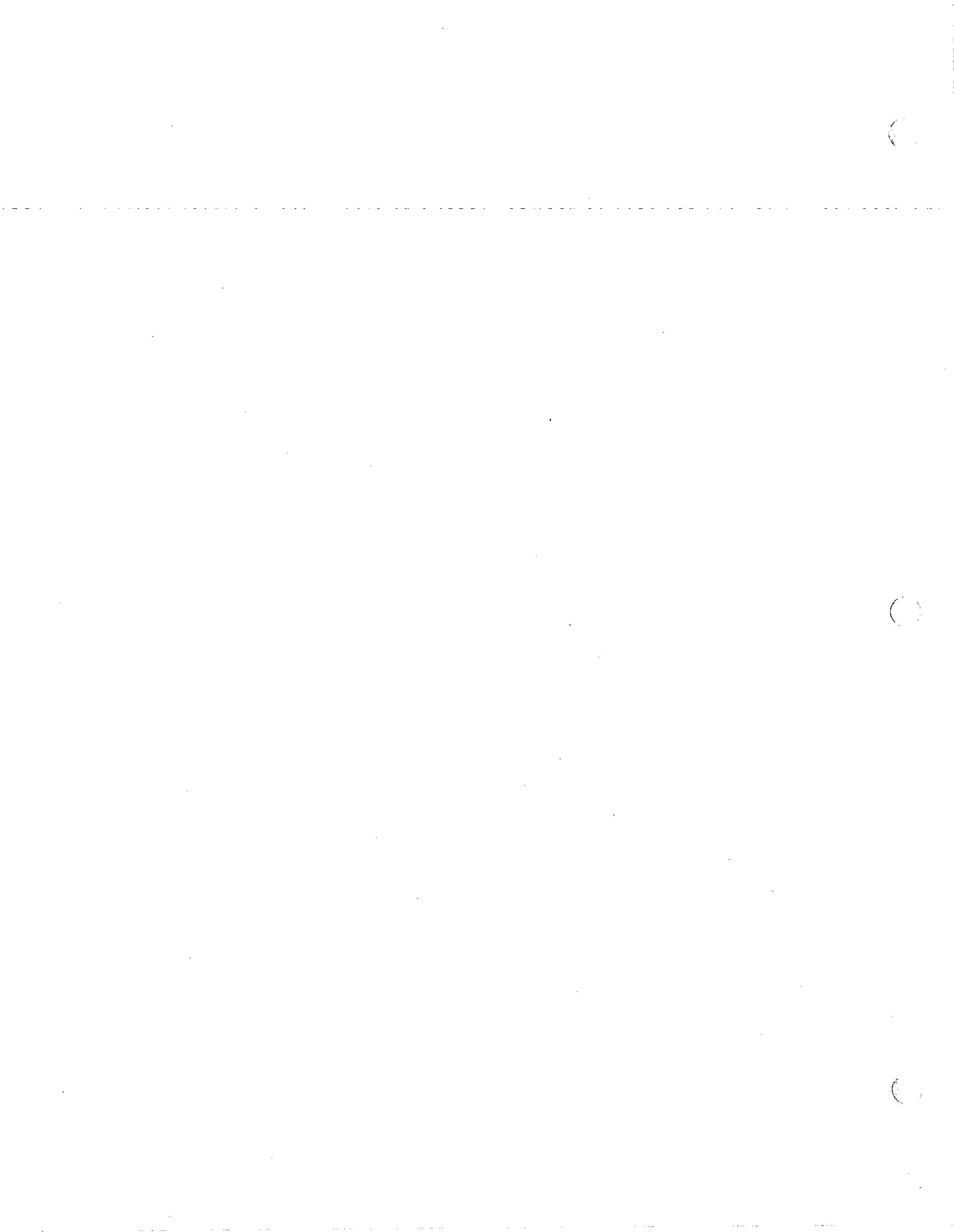


APPENDIX A  
SITE LOCATION MAPS

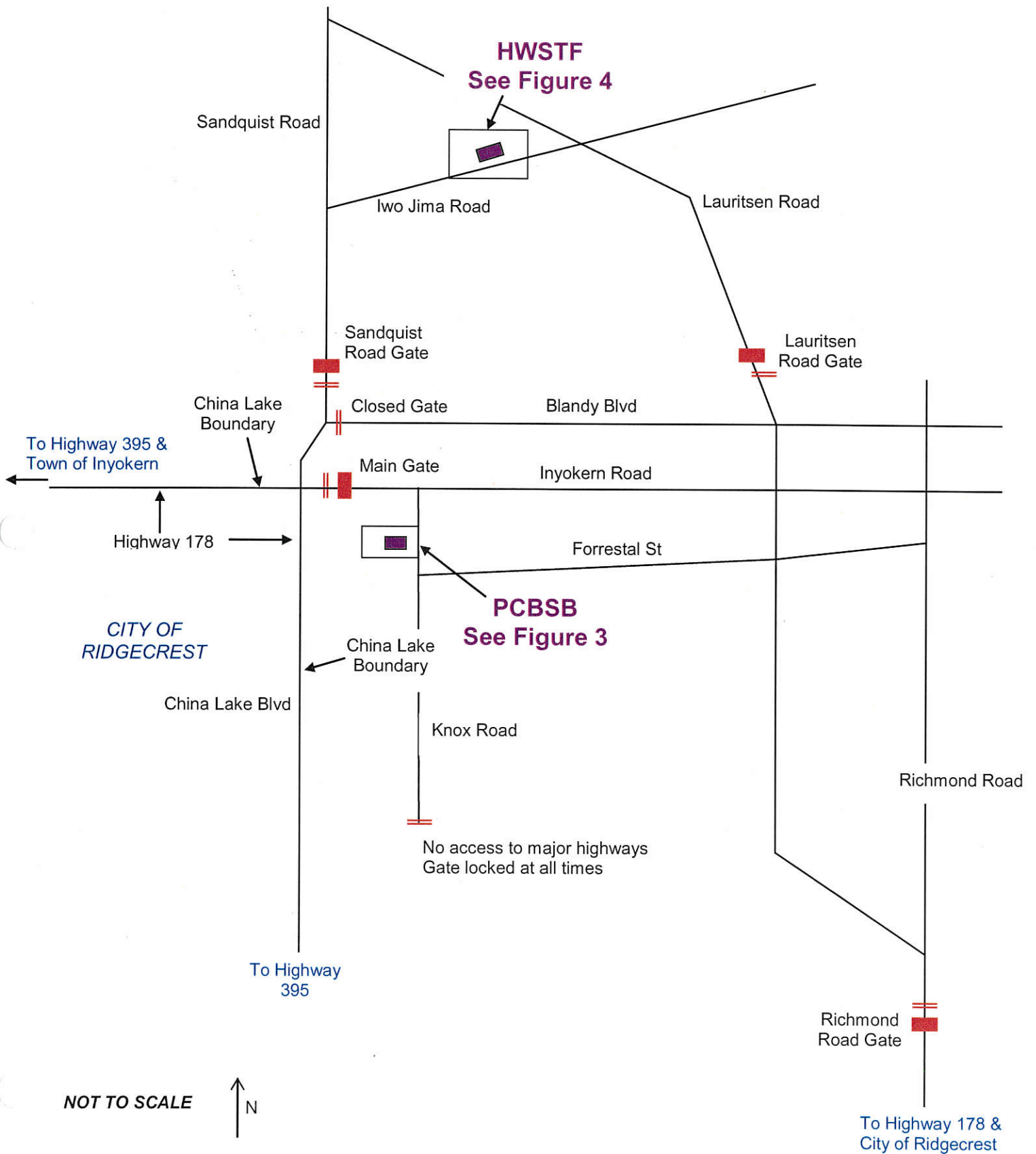




**Figure 1.0 – Location of Naval Air Weapons Station (NAWS) China Lake**



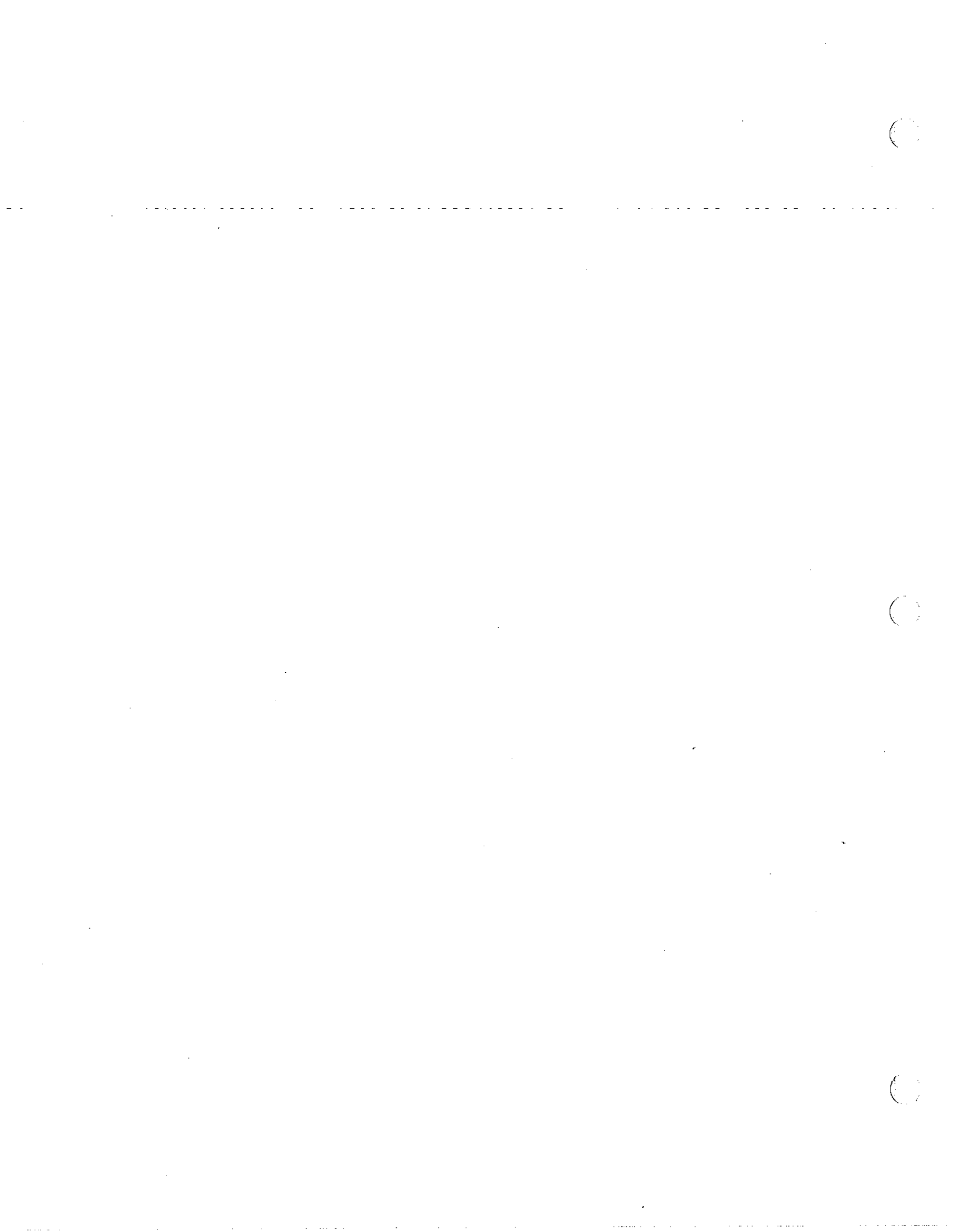
**FIGURE 2 – Hazardous Waste Storage & Transfer Facility (HWSTF) & PCB Storage Building (PCBSB) Access Roads**



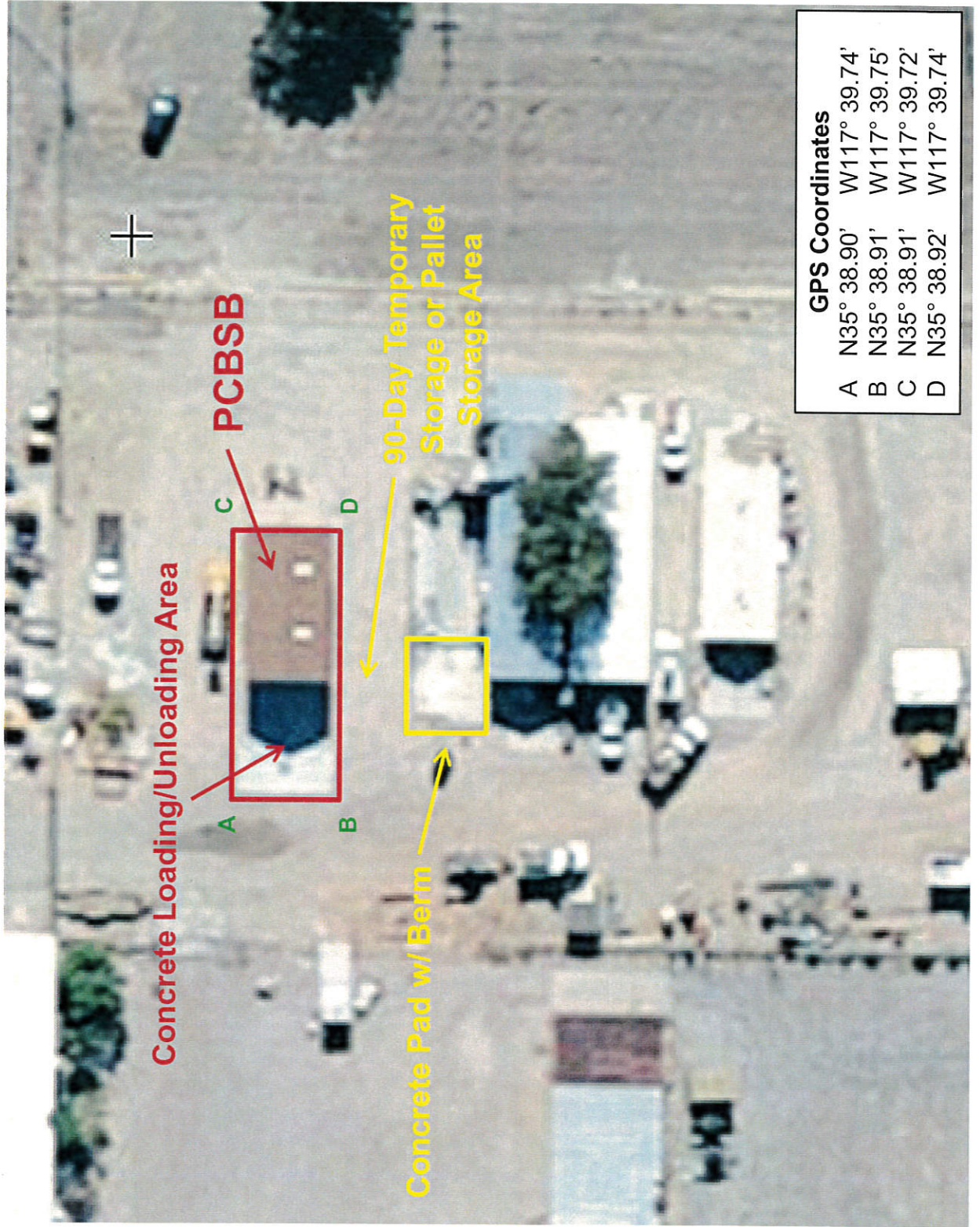


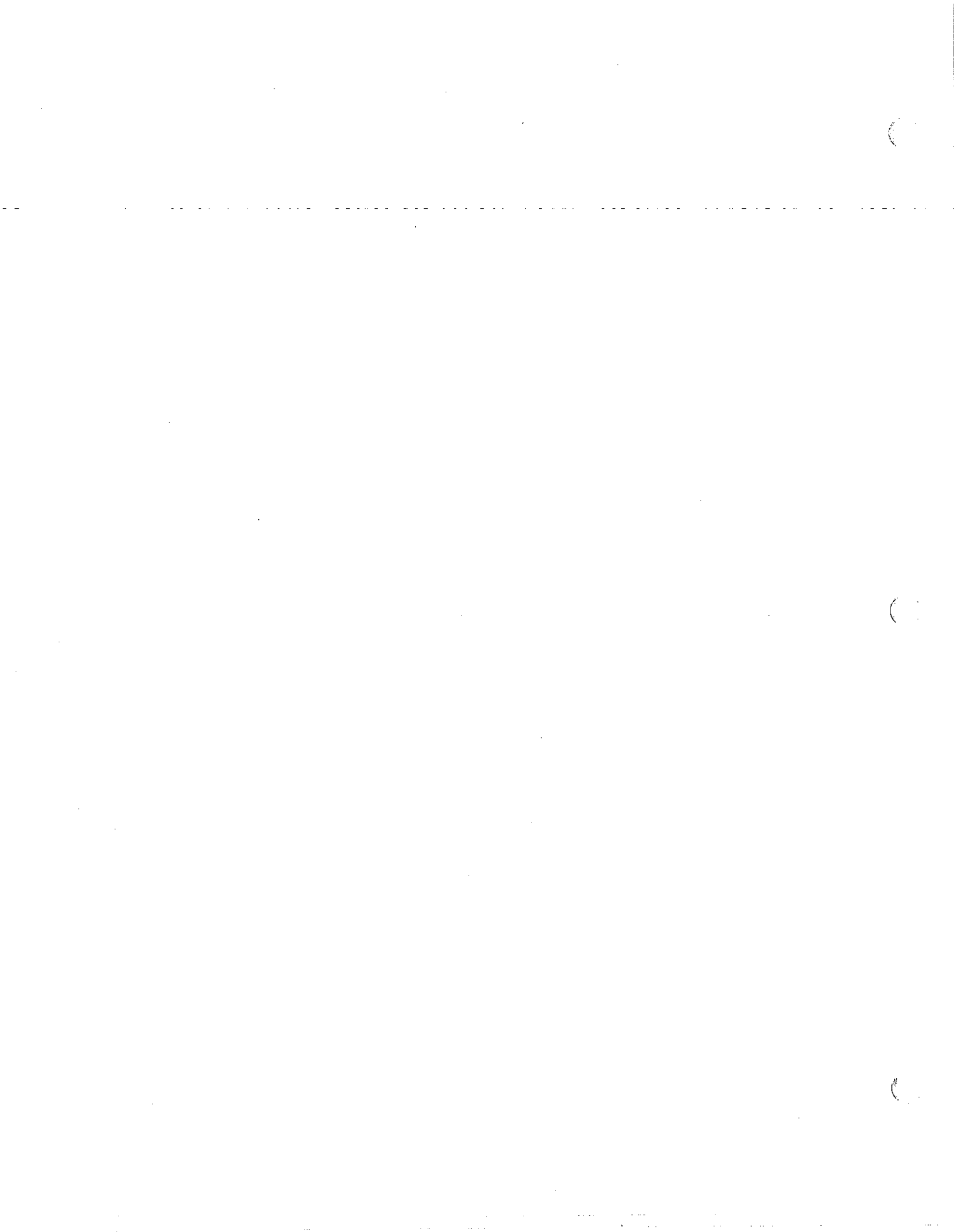


APPENDIX B  
UNIT LAYOUT FIGURES



**FIGURE 3.0  
PCBSB LAYOUT**







**FIGURE 4.0**  
**HWSTF Layout**

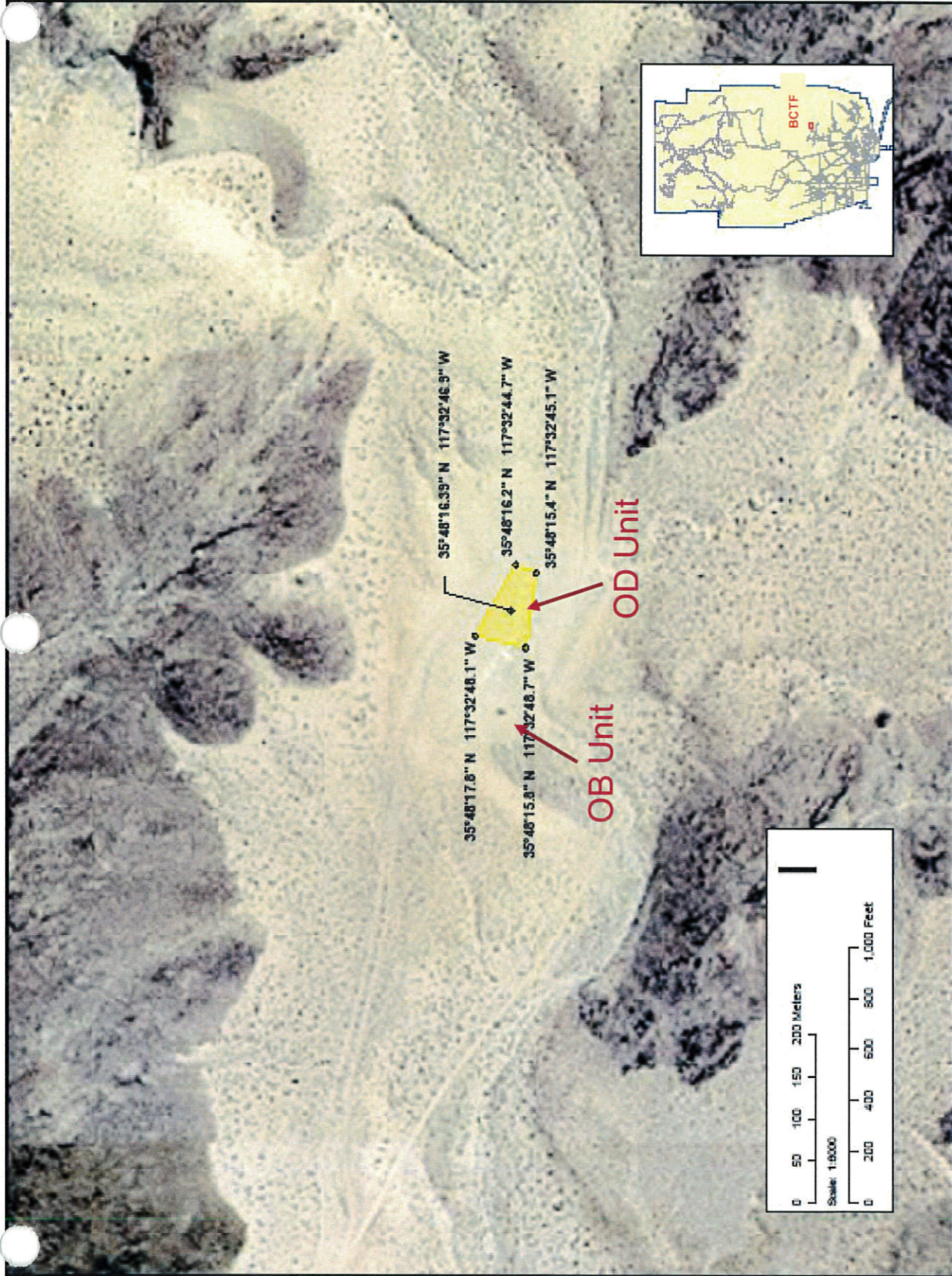


**GF Coordinates**

A	N35°39'45.9"	W117°39'44.5"
B	N35°39'46.0"	W117°39'44.0"
C	N35°39'45.5"	W117°39'44.4"
D	N35°39'45.7"	W117°39'42.9"
E	N35°39'45.5"	W117°39'44.2"
F	N35°39'45.6"	W117°39'44.1"
G	N35°39'45.4"	W117°39'44.3"
H	N35°39'45.6"	W117°39'43.6"
I	N35°39'47.0"	W117°39'42.6"
J	N35°39'47.8"	W117°39'41.1"
K	N35°39'46.7"	W117°39'42.5"
L	N35°39'47.5"	W117°39'40.9"
M	N35°39'47.6"	W117°39'40.4"
N	N35°39'47.5"	W117°39'40.4"







**Figure 5.0 – Aerial Photograph of Burro Canyon Treatment Facility (BCTF)**

