

Appendix A: Preliminary Assessment Summary Forms

W

PA Summary

DoD Site #

174

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-050-760	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET
0080-050-770	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET

Year Bldg. Built 1952 Year Bldg. Removed 1954-1962 Site Area (SqFt) 1553

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Water and Firehouse Sites

DoD Uses

Booster Pump House (Firewater)

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Constructed in 1952 as a booster pump house for fire fighting water. Structure appears on a 1954 map (ref 646). Structure does not appear on a 1962 Building Zone List (ref 713).

Records Research Report Comments

Corrugated Asbestos cement roof

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

176

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-700	REMUDA ASSOCIATES	3651 PARK ROAD			
Year Bldg. Built	1953	Year Bldg. Removed	Post 1964	Site Area (SqFt)	157
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Sewer and Drainage Systems

DoD Uses

Sewage Pump House

Secondary DoD Uses

None Identified

Post-Army Uses

Sanitary and industrial waste line services for the City of Benicia.

Flooring

Concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Raw sewage from Area W was routed from Building 176 through underground 8-inch vitrified clay pipes toward an open ditch (Sulphur Springs Creek Drainage Canal) which terminates into the Suisun Bay.

Records Research Report Addenda Data

As of 30 November 1955, raw sewage was routed into Suisun Bay (ref 36). DoD scheduled vacate date for Building 176 was March 1964 (ref 713).

Records Research Report Comments

Building 176, located southwest of Warehouse W3, was constructed as a sewage lift station. Built on a concrete foundation with steel walls, wood-truss rafters, and a corrugated asbestos/cement roof. Raw sewage was discharged from Area W and elsewhere at the Arsenal into the surrounding waters during military operations (ref 405). The discharge of untreated waste to surface waters was common practice at the time. Raw sewage from Area W was routed from Building 176 through underground 8-inch vitrified clay pipes toward an open ditch (Sulphur Springs Creek Drainage Canal) which ends in Suisun Bay. A sewage sample was collected on 27 April 1954 and tested. The sample was described as raw sewage and contained 838 parts per million (ppm) of total solids, 110 ppm of suspended solids, and 1.2 milligrams per liter (mg/l) of settleable solids. Benicia Industries, Inc., completed a sewerage project which included the pumping station on Bayshore Road (presumably Building 176). The project was given a final inspection 15 January 1970, 6 years after the Arsenal closed. According to the letter documenting the inspection, the sewerage project was considered complete, and in conformance with plans and specifications. The project was then to be presented to the City of Benicia for acceptance (ref 704).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

PA Summary

DoD Site #

176

Area: W

COMMENTS

A 1958 map indicates electrical power as the power source.

RECOMMENDATIONS

No DoD action is indicated (NDAD) for this site.

PA Summary

DoD Site #

177

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-360	KOERNER NORMAN D & BETTY L	3801 SPRIG DRIVE			
Year Bldg. Built	1958	Year Bldg. Removed	Unknown	Site Area (SqFt)	966
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Compressor Building

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In 1958, the gasoline-powered compressor located on the concrete pad outside was no longer adequate. A 966 square foot building with steel walls was built to hold a new air compressor.

Records Research Report Comments

Adjacent to W6 and CL1

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

194

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-110-260	BENICIA INDUSTRIES INC	
Year Bldg. Built	Circa 1950s	Year Bldg. Removed
		By Oct 1954
Current Land Use	Industrial-General	
	Site Area (SqFt)	1897

OPERATIONAL HISTORY

DoD Use Type

Sewer and Drainage Systems

DoD Uses

Septic Tank

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Per Drawing 5765, dated 28 Oct 1954, septic tank Building 194 had been abandoned (ref 606). Building appears on a 1954 map (ref 646).

Records Research Report Comments

4,000-gallon capacity

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Septic Tank	US Army	4000	Unknown	Sewage	1950s	Pre 1954	No	<input type="checkbox"/>

Uses: Septic Tank

Comments:

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Located near the NIKE Missile Repair and Support Facilities. The tank was abandoned. Research of this septic tank indicates that it was abandoned by October 1954 (prior to decommissioning and closure of the former Arsenal in 1964). Therefore the septic tank was not beneficially used and is considered an eligible property for investigation under the FUDS Program pursuant to Chapter 3, Section 7.2.3.5 of USACE Engineering Circular EC-200-3-7, DERP-FUDS Program Manual, dated 30 September

PA Summary

DoD Site #

194

Area: W

1999.

RECOMMENDATIONS

Additional investigation is recommended at this site to determine the potential groundwater impacts from the possible discharge into the septic tank from the former NIKE missile repair and support facilities (CL1).

PA Summary

DoD Site #

195

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL
Year Bldg. Built	Unknown	Year Bldg. Removed
		Post 1954
Current Land Use	Industrial-General	
	Site Area (SqFt)	983

OPERATIONAL HISTORY

DoD Use Type

Sewer and Drainage Systems

DoD Uses

Septic Tank

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Date of construction unknown. Structure appears on a 1954 map (ref 646).

Records Research Report Comments

26,000 gallon capacity

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Septic Tank	US Army	26000	Unknown	Sewage	1950s	Unknown	Unknown	<input type="checkbox"/>

Uses: Septic Tank

Comments:

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Located at the NIKE Missile Repair and Support Facilities. Records indicate that effluent from the paint spray booth in CL1 was discharged into the flushing room, component room, and sanitary sewer. The status of this tank is unknown. As of 1954, the septic tank was still present. Storm drains, sewage lines and tanks that have been in use since the closure of the former Arsenal are considered to provide beneficial use to the current owners. Pursuant to Chapter 3, Section 7.2.3.5 of USACE Engineering Circular EC-200-3-7, DERP-FUDS Program Manual, dated 30 September 1999, beneficially used structures are

PA Summary

DoD Site #

C419

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-040-050	P G & E CO				
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Large-Size Igloos

Secondary DoD Uses

Unknown

Post-Army Uses

Berwind Railway Service Company for railroad car cleaning and repair shop (tank cleaning) and to Winton Jones Contractor for construction in 1973 (ref 418).

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

No specific detail on materiel stored - presume warehousing of guns, rifles, and other types of ordnances stored at the Arsenal over the years.

Records Research Report Comments

Only two type C igloos, C419 and C420, were constructed in Area W. They appear in the northwest tip of Area W in the 1945 Arsenal map.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Post Army maintenance activities. There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

C420

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-040-570	ROSE STEPHEN A	101 E CHANNEL ROAD			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Large-Size Igloos

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

No specific detail on materiel stored - presume warehousing of guns, rifles, and other types of ordnances stored at the Arsenal over the years.

Records Research Report Comments

Only two type C igloos, C419 and C420, were constructed in Area W. They appear in the northwest tip of Area W in the 1945 Arsenal map.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

CL1

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	30690
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Clip-link and belt plant (1942-1944); guided missile shop/NIKE missile repair & rebuilding

Secondary DoD Uses

None Listed

Post-Army Uses

1968-1977: Benicia Manufacturing for the manufacture and assembly of auto parts including jacks and safety belts (ref 587 and 702). 1969-1977: Kearney-National, Inc., for the manufacture of electrical equipment including outdoor lighting poles (ref 587 and 702). 1973: Solano Specialties for the manufacture and assembly of auto parts (ref 418). Benicia Industries, Inc., granted dumping rights under the lease to Weldon Leather to dispose of their waste leather in the area. It was estimated that 10,000 to 12,000 cubic yards of scrap leather were dumped between 1965 and early 1969 when Benicia Industries, Inc., stopped the practice. The leather waste was to be disposed of in the future at an approved dump in Contra Costa County between Martinez and Concord (ref 594). According to the minutes of a meeting of the Benicia Industries, Inc., Executive Committee, dated 30 April 1974, a Cleanup and Abatement Order was issued by the Regional Water Quality Control Board (RWQCB) that required Benicia Industries, Inc., to remove all scrap leather dumped in the vicinity of CL1 by Weldon Leather. Recorded in the minutes of Executive Committee meetings, dated 25 and 26 June 1974, the costs for removing the scrap leather were higher than previously estimated because the volume of scrap material uncovered was much greater than anticipated. The bulk of the material had been removed and the RWQCB had granted additional time to complete the final cleanup after the area dried out (ref 593). Records research did not identify the current use of CL1. According to Vista Information Services, thirteen businesses located in the vicinity of Building CL1 have leaking USTs or generate hazardous wastes.

Flooring

Concrete foundation

Disposal Information

Effluent from the paint spray booth in CL1 was discharged into the flushing room, component room, and sanitary sewer. The flushing room and component room had drain lines installed that discharged to open bottom field drains.

Activities (inside/outside)

Inside/Outside

Records Research Report Addenda Data

From May 1942 through 1 December 1943 the plant had a daily output target of 500,000 loaded .30 and .50 caliber rounds (ref 536, Bailey, 1997). By December 1943, activities related to the Arsenal's new mission as the transshipment depot replaced this small arms ammunition activity. During 1944 and 1955, Building CL1 was used for renovation and reclamation of returned materiel from World War II and the Korean conflict. This exercise included re-packing many hundreds of thousands of pounds of propellant powder (ref 536). In 1954, the Arsenal was assigned the mission of rebuilding NIKE guided missile propellant systems and internal guidance systems (ref 536). On 25 January 1955, a request for funds to rehabilitate Building CL1 during fiscal year 1956 was filed. The rehabilitation was justified as necessary to meet the requirements of servicing from four to eight NIKE missiles during an eight-hour work shift (ref 48). According to Drawing 5789, dated 18 February 1955, Building CL1 contained a spray paint booth attached to the building's southern area. Upon completion of the rehabilitation in 1956, Building

PA Summary

DoD Site #

CL1

Area: W

CL1 became the official NIKE missile propellant system and internal guidance system repair plant. The newly rehabilitated facility provided an additional 16,000 ft² of floor space, of which 2,400 ft² was dust-proof and air-conditioned for work on delicate components (ref 536). In 1957 the Arsenal rebuilt 619 missiles; during the first half of 1958, it rebuilt 584. In May 1959, Building CL1 was upgraded to accommodate the NIKE Hercules missile (ref 536), an all-solid propellant model (ref 560). According to the 1961 Facility Data Report, CL1 was heated by a combination of steam, convectors, and oil (ref 196). Building CL1 continued to re-build guided missiles until the closure of the Arsenal in 1964. Portions of the area (exact locations have not been determined) to the south and east of Building CL1 have been identified by former Benicia Industries, Inc., employees as a landfill used by Benicia Industries, Inc., in the mid- to late-1960s (assumed to be the area where Weldon Leather disposed of waste leather).

Records Research Report Comments

Constructed primarily as a facility for the loading of .30 and .50 caliber machine gun belts. The structure, located 800 feet east of the viaduct for the westbound Southern Pacific Railroad, was built on a concrete foundation with 10-inch concrete walls and a concrete slab roof, and covers an area of 30,690 ft², with 690 ft² of basement space (ref 196). A concrete pad, located south of the eastern corner of the building, was used to support a 3,500 pounds per square inch (psi) gasoline-powered air compressor (ref 606). Degreasers, paints, oils, and thinners were used in Building CL1. The first NIKE missiles serviced in Building CL1 were NIKE Ajax models. The Ajax used a solid fuel (nitrocellulose-nitroglycerin) booster, liquid fuel (nitric acid-aniline) main sustainer motor, and a starting fluid (50:50 mixture of aniline and furfuryl alcohol) (ref 142, 560). Servicing NIKE missiles involved the use of highly flammable and explosive chemicals such as aniline, red fuming nitric acid, furfuryl alcohol, and jet propellant-3 (JP-3). It also required handling the nitrocellulose-nitroglycerin solid fuel (ref 142). NIKE missile body parts serviced in Building CL1 included missile fins, booster fins, thrust structures, igniters, batteries, warheads, and warhead accessory kits. Effluent from the paint spray booth in CL1 was discharged into the flushing room, component room, and sanitary sewer. The flushing room and component room had drain lines installed that discharged to open bottom field drains. According to former Arsenal employee Earl Manor, due to the dumping of scrap leather at the site by Weldon Leather, chromium was detected in surface water by the U. S. Department of Fish and Game. This release resulted in a \$2 million clean-up funded by Benicia Industries, Inc. (Manor, 1997). Records Research could not confirm this. After review of aerial photographs between 1962-1973 Brown and Caldwell was unable to confirm the discoloration listed in the records research report. In particular, review of the 1962 aerial photo in the Records Research Report indicates heavily soiled areas with black material showing up between CL1 and W6. It appears this area is filled with water. Additional was research by interviewing the current landowner, Benicia Industries, and a former employee (Mr. Hientiz) about the location and results from the Weldon Leather Clean-up. There were no records remaining. However, the location of the Weldon leather disposal area likely coincides with the western waste area (See site Waste Areas/Open Ditch).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Booth	US Army	0	Unknown	Paints	1940s	Unknown	Unknown	<input type="checkbox"/>

Uses: Paint booth

Comments:

Furthest Stage of Environmental Investigation

RIFS

COMMENTS

Waste was discharged directly to the sewer, which lead to the open ditch and two open bottom field drains. This site also was used extensively after the Army and prior environmental clean-ups have occurred. The exact location of these post-Army clean-ups are not known but an interview indicates that clean-up may have occurred at the waste areas (See site Waste Areas/Open Ditch).

RECOMMENDATIONS

Site requires further investigation for possible releases of solvents from waste discharged from CL1.

PA Summary

DoD Site #

CL2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-300	DRESSER-RAND COMPANY	
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1942	1962-1998	494
Current Land Use	Industrial-General	

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Boiler House

Secondary DoD Uses

None Listed

Post-Army Uses

None Identified

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

On 16 November 1955, a request for the demolition of the 3,180-gallon UST was approved by the installation Commander. The disposal was recommended due to the excessive maintenance cost of the UST (ref 74), which was later replaced with a 5,000-gallon capacity above-ground storage tank (AST) placed adjacent to Building CL2 (ref 605) and (ref 167). According to a 1962 Building Zone List, CL2 was scheduled with an approximate date to vacate of December 1962.

Records Research Report Comments

Constructed to provide heat to Building CL1. Located 100 feet west of the western corner of Building CL1, Building CL2 was constructed on a concrete foundation with 8-inch concrete walls and a concrete slab roof; the building covered an area of 494 ft² and contained one oil boiler (ref 196). To supply fuel oil to the boiler, a 3,180-gallon underground storage tank (UST) was installed near Building CL2 at the time of the building's construction (ref 74) in 1942. The records search indicates that the building is no longer present. The records did not indicate when the building was demolished.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	UST	US Army	3180	Unknown	Fuel Oil	1940s	1955	None	<input type="checkbox"/>

Uses: Fuel Storage

Comments:

PA Summary

DoD Site #

CL2

Area: W

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 2	AST	US Army	5000	Unknown	Fuel Oil	1955	Unknown	Unknown	<input type="checkbox"/>

Uses: Fuel Storage

Comments:

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Status of the UST is unknown.

RECOMMENDATIONS

Additional research is recommended to determine the status of the UST.

PA Summary

DoD Site #

CL3

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL			
Year Bldg. Built	Circa 1945	Year Bldg. Removed	Unknown	Site Area (SqFt)	1491
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Change Room

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Change Room no longer present. According to Jim Milburn, former arsenal employee, the change room was for changing clothes and oftentimes smoking.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

CL4
Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL			
Year Bldg. Built	Circa 1945	Year Bldg. Removed	1945-1954	Site Area (SqFt)	534
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Paint Storage

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

No longer present. All paints, oils, thinners used in the spray paint booth, located on the south side of Building CL1, and fuel for the gasoline-powered compressor, were assumed to be kept in this building (ref 650). A 1954 Arsenal General Map does not show CL4 (ref 646).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating the actual use or contents of this building other than the name given "Paint Storage" on a map. As such, there are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D501

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-760	TRIOND	605 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D501 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D502

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-700		
0080-040-700	CALWEST INDUSTRIAL HOLDINGS	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D502 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D503

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-570	BOTTLING GROUP LLC	652 INDIANA STREET			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

Leased to the Vallejo Rod and Gun Club for a small arms training program for youths in 1973 (ref 418). Industrial development.

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D504

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-080-620	3928 OREGON STREET	3928 OREGON STREET
0080-080-630	3928 OREGON STREET	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

Records Research Report Comments

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

COMMENTS

RECOMMENDATIONS

PA Summary

DoD Site #

D505

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-280	CALWEST INDUSTRIAL HOLDINGS	401 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	24062410
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D505 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D506

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-280	CALWEST INDUSTRIAL HOLDINGS	401 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D506 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D507

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-280	CALWEST INDUSTRIAL HOLDINGS	401 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D507 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D508

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-290	CALWEST INDUSTRIAL HOLDINGS	363 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D508 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D509

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-290	CALWEST INDUSTRIAL HOLDINGS	363 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D509 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D510

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

0080-040-460

Owner Name

CALWEST INDUSTRIAL HOLDINGS

Site Address

243 INDUSTRIAL

Year Bldg. Built Circa 1942

Year Bldg. Removed 1951

Site Area (SqFt) 2406

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D510 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D511

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-040-460	CALWEST INDUSTRIAL HOLDINGS	243 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D511 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D512

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-080-050	LAHROP CONSTRUCTION ASSOC INC	4001 PARK ROAD
0080-080-560	RAHLVES DENNIS L	3909 PARK ROAD

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)
Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

The USACE Supplemental Archives Search Report identified igloos D512, D513, and the area between them as the probable location for storage of CWM based on a 1945 aerial photograph. USACE identified these igloos, and the surrounding one acre parcel, as Area 7 (refs 543 and 544). (The report was unable to confirm the location, but historical records indicate that several tarp covered structures were constructed in 1942-1943 for outdoor storage of CWM.) Based on Benicia Arsenal records, chemical warfare agents stored may have included mustard gas, lewisite gas, nitrogen mustard gas, chlorine gas, phosgene gas, chloropicrin gas, lacrimators (tear gas), white phosphorus, FS smoke, FM smoke, HC smoke, magnesium, Thermit, and oil bombs (ref 9). Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Records were unable to confirm the presence of CWM at this site and the area between D512 and D513 as an outdoor storage area for CWM. The area was demolished during initial development.

PA Summary

DoD Site #

D512

Area: W

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D513

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-070-040	SPK-INDUSTRIAL PORTFOLIO LLC	597 INDIANA STREET
0080-080-570	BOTTLING GROUP LLC	652 INDIANA STREET

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

Crown Zellerbach Corp. for warehousing in 1973 (ref 418). Industrial development

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

The USACE Supplemental Archives Search Report identified igloos D512, D513, and the area between them as the probable location for storage of CWM based on a 1945 aerial photograph. USACE identified these igloos, and the surrounding one acre parcel, as Area 7 (refs 543 and 544). (The report was unable to confirm the location, but historical records indicate that several tarp covered structures were constructed in 1942-1943 for outdoor storage of CWM.) Based on Benicia Arsenal records, chemical warfare agents stored would have included mustard gas, lewisite gas, nitrogen mustard gas, chlorine gas, phosgene gas, chloropicrin gas, lacrimators (tear gas), white phosphorus, FS smoke, FM smoke, HC smoke, magnesium, Thermit, and oil bombs (ref 9). Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Records were unable to confirm the presence of CWM this site and the area between D512 and D513 as an outdoor storage area for CWM. The area was demolished during initial development.

PA Summary

DoD Site #

D513

Area: W

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D514

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-110	SUNDANCE LANDSCAPING INC	620 INDIANA STREET			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D514 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D515

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-410	FIRENZI PROPERTIES INC	3931 OREGON STREET			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. D515 was one of the igloos demolished (ref 87).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D516

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-070-030	TULLOCH CONSTRUCTION INC	4280 IOWA STREET
0080-250-480	ROMAK IRON WORKS	380 INDUSTRIAL COURT

Year Bldg. Built: Circa 1942 Year Bldg. Removed: Post 1973 Site Area (SqFt): 2406
Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

D516 and D517 were leased to the Army and Air Force Exchange for unspecified storage in 1973.

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D517

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

Owner Name

Site Address

0080-070-030	TULLOCH CONSTRUCTION INC	4280 IOWA STREET
0080-250-490	CALWEST INDUSTRIAL HOLDINGS	360 INDUSTRIAL COURT

Year Bldg. Built Circa 1942 Year Bldg. Removed Post 1973 Site Area (SqFt) 2406

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

D516 and D517 were leased to the Army and Air Force Exchange for unspecified storage in 1973.

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D518

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-050-510	COCA-COLA BOTTLING COMPANY	530 GETTY COURT
0080-250-490	CALWEST INDUSTRIAL HOLDINGS	360 INDUSTRIAL COURT

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D519

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-040-690	CALWEST INDUSTRIAL HOLDINGS	273 INDUSTRIAL			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

Tony Lopez for unspecified storage in 1973 (ref 418).

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D520

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-050-760	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET
0080-050-770	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET

Year Bldg. Built: Circa 1942 Year Bldg. Removed: Post 1973 Site Area (SqFt): 2406

Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years. The Archive Search Report for the Benicia Arsenal prepared by the USACE, Huntsville Division, in 1994 found several documents indicating that chemical warfare materiel (CWM) was loaded onto ships at the Arsenal and only with an emergency consignment was CWM stored at the Arsenal. A cabinet containing first aid supplies for gas casualties, and equipment and supplies for decontamination of chemical agents, was located at igloo D520 (ref 9).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D521

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-070-400					
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. Based on historical maps, a total of 15 igloos were actually removed by DOD for warehouse expansion. The additional igloos were D521, D522, and D523 (ref 636).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D522

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-070-400					
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. Based on historical maps, a total of 15 igloos were actually removed by DOD for warehouse expansion. The additional igloos were D521, D522, and D523 (ref 636).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D523

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-070-400					
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1951	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In September 1951, approval was given to demolish 12 igloos located in Area W. Based on historical maps, a total of 15 igloos were actually removed by DOD for warehouse expansion. The additional igloos were D521, D522, and D523 (ref 636).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. Removed prior to 1957 based on building inventory (ref 167). There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D524

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-070-020	TULLOCH CONSTRUCTION INC	540 STONE ROAD			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Small Arms Magazine Storage

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. D524 was used for acetylene tank storage with scheduled DoD vacate date of 31 May 1962 (ref 713).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D525

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-050-510	COCA-COLA BOTTLING COMPANY	530 GETTY COURT			
Year Bldg. Built	1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Warfare Materiel Storage Sites

DoD Uses

Small Magazines Storage

Secondary DoD Uses

None Identified

Post-Army Uses

Leased to William Robinson for unspecified storage in 1973.

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D526

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-050-510	COCA-COLA BOTTLING COMPANY	530 GETTY COURT			
Year Bldg. Built	1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Small Magazines Storage

Secondary DoD Uses

None Identified

Post-Army Uses

Thomas B. Phair for storage of old artillery pieces in 1973

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. D526 was used for oxygen tank storage, with scheduled DoD vacate date of 31 May 1962 (ref 713).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D527

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-060-190	CALWEST INDUSTRIAL HOLDINGS	539 STONE ROAD			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

D527 and D528 were leased to Petrof Trading Co. for unspecified storage in 1973 (ref 418). Current use of the areas include industrial development.

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Igloo appears on a 1954 map (ref 646).

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D528

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-050-350	CALWEST INDUSTRIAL HOLDINGS	535 GETTY COURT			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

D527 and D528 were leased to Petrof Trading Co. for unspecified storage in 1973 (ref 418). Current use of the areas include industrial development.

Flooring

Reinforced concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

D529

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-050-500	CALWEST INDUSTRIAL HOLDINGS	531 GETTY COURT			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	Post 1973	Site Area (SqFt)	2406
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Igloo Magazines

Secondary DoD Uses

None Identified

Post-Army Uses

D526 and D529 were leased to Thomas B. Phair for storage of old artillery pieces in 1973.

Flooring

Reinforced Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Built on reinforced concrete foundations using concrete wall and earthen roof construction. There were 29 type D igloos constructed in Area W. These igloos are labeled D501 to D529. Records did not present much detail with regard to the materiel stored in the igloos. Where records do not identify specific materiel stored, it is presumed that the igloos warehoused guns, rifles, and all other types of ordnance stored at the Arsenal over the years.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Igloo no longer exists. There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

DL2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-450	KOERNER NORMAN D & B L	200 INDUSTRIAL
Year Bldg. Built	1942	Year Bldg. Removed
		Post 1962
Current Land Use	Industrial-General	
	Site Area (SqFt)	864

OPERATIONAL HISTORY

DoD Use Type

Rail Yard and Facilities Sites

DoD Uses

Dunnage Equipment Building

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Dunnage equipment building constructed in 1942 (ref 196). A 1962 Building Zone List identifies DL2 as Vacant (ref 713).

Records Research Report Comments

Used to store wooden packing material used during the shipment of Arsenal materiel.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

M2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-360	MELFY LLC	3737 PARK ROAD			
Year Bldg. Built	Circa 1945	Year Bldg. Removed	1960's	Site Area (SqFt)	2931
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Water and Firehouse Sites

DoD Uses

Firehouse

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside/Outside

Records Research Report Addenda Data

Wood frame fire house demolished during construction of Interstate 680 (ref 718).

Records Research Report Comments

No longer present. Fire extinguisher contained carbon tetrachloride, foam, soda acid, carbon dioxide, and water.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The site was demolished during the construction of the I-680. There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

M3

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-560	RAHLVES DENNIS L	3909 PARK ROAD			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1945-1954	Site Area (SqFt)	1234
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Storage (unspecified)

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

Built in 1942 as a storage shed, but storage contents are unspecified. Appears on a 1945 map (ref 650). Structure does not appear on a 1954 map (ref 646).

Records Research Report Comments

Building demolished.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

M4

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-560	RAHLVES DENNIS L	3909 PARK ROAD			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1945-1952	Site Area (SqFt)	952
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Equipment Storage

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

The building is not seen on an aerial photo taken on 3 August 1952. Also, the building is not present on the 1958 Basic Information Maps for the Benicia Arsenal, which suggests that the building was demolished by DoD. Appears on a 1945 map (ref 650).

Records Research Report Comments

Building M4 is located a few feet southwest of Building M3 at the southern end of the access road to the storage igloos. The building was used as an equipment warehouse.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

M8
Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-080-560	RAHLVES DENNIS L	3909 PARK ROAD
Year Bldg. Built	Circa 1942	Year Bldg. Removed
		1945-1952
Current Land Use	Industrial-General	
	Site Area (SqFt)	1162

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Tool Storage

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

The building is not seen on an aerial photo taken on 3 August 1952 or on the 1958 Basic Information Maps for the Benicia Arsenal, which suggests that the building was demolished by DoD. Appears on a 1945 map (ref 650).

Records Research Report Comments

Building M8 is located a few feet north of Building M4 and used as a tool shed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

M11

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-050	LAHROP CONSTRUCTION ASSOC INC	4001 PARK ROAD			
Year Bldg. Built	Circa 1942	Year Bldg. Removed	1942-1952	Site Area (SqFt)	1162
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Storage

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

None Identified

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Built in 1942 as a storage shed, contents of which are unspecified.

Records Research Report Comments

Building is not seen on an aerial photo taken on 3 Aug 1952 or on the 1958 Basic Information Maps for the Benicia Arsenal, which suggests that the building was demolished by DoD.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS35

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-080-510	RIGGS J D	
0080-080-580	WAKEN EUGENE R & DHANA	610 INDUSTRIAL
0080-080-590	WAKEN EUGENE R & DHANA	630 NOYES COURT
0080-080-720	BARRAGAN ANTONIO & GRACIELA	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Open Storage

Secondary DoD Uses

None Identified

Post-Army Uses

Industrial Development

Flooring

Asphalt parking lot and soil (currently)

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

On 25 June 1950 (the beginning of the Korean conflict), the Arsenal also received a large influx of materiel for shipment overseas. These shipments resulted in the open storage of supplies in the humid marine air and may have contributed to the deterioration of ferrous metal. Due to stringent shipment deadlines and lack of warehouse space, derusting, painting, fueling, and lubrication activities occurred in Area W's OS areas (as well as other OS areas at the Arsenal). These activities were known as maintenance in storage (MIS). Appears on a 1954 map (ref 646).

Records Research Report Comments

Open storage (OS) areas were used to stockpile large volumes of automotive parts, trucks, and materiel (ref 536). OS35, located west of Buildings W3 and W4, covers an area approximately 900 feet by 100 feet.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Records were not found to substantiate any MIS activities that took place at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS35

Area: W

PA Summary

DoD Site #

OS36

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-280	PARACHINI BENICIA PROP LP	
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL
0080-110-260	BENICIA INDUSTRIES INC	

Year Bldg. Built Circa 1950 Year Bldg. Removed Post 1962 Site Area (SqFt) 42772

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Open Storage

Secondary DoD Uses

None Identified

Post-Army Uses

Industrial Development

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

In 1956 this area was used as the site for Building TS2. OS36 was used for storage of guided missiles, with a DoD vacate date scheduled for December 1962 (ref 713). In 25 June 1950 (the beginning of the Korean conflict), the Arsenal also received a large influx of materiel for shipment overseas. These shipments resulted in the open storage of supplies in the humid marine air and may have contributed to the deterioration of ferrous metal. Due to stringent shipment deadlines and lack of warehouse space, derusting, painting, fueling, and lubrication activities occurred in Area W's OS areas (as well as other OS areas at the Arsenal). These activities were known as maintenance in storage (MIS).

Records Research Report Comments

OS36, located south of Building CL1, covers an area 275 feet long by 150 feet wide. Open storage (OS) areas were used to stockpile large volumes of automotive parts, trucks, and materiel (ref 536).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Records were not found to substantiate any MIS activities that took place at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS37

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-020	ZOELLNER JAY	3701 MALLARD DRIVE
0080-090-290	DRESSER-RAND COMPANY	201 MALLARD DRIVE
0080-090-360	KOERNER NORMAN D & BETTY L	3801 SPRIG DRIVE

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

In 1958, Building 177 was built within this area. In 25 June 1950 (the beginning of the Korean conflict), the Arsenal also received a large influx of materiel for shipment overseas. These shipments resulted in the open storage of supplies in the humid marine air and may have contributed to the deterioration of ferrous metal. Due to stringent shipment deadlines and lack of warehouse space, derusting, painting, fueling, and lubrication activities occurred in Area W's OS areas (as well as other OS areas at the Arsenal). These activities were known as maintenance in storage (MIS). Appears on a 1954 map (ref 646).

Records Research Report Comments

OS37, located north of Building CL1, has a roughly triangular shape and is slightly more than 1/2 acre in area. Open storage (OS) areas were used to stockpile large volumes of automotive parts, trucks, and materiel (ref 536).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

COMMENTS

RECOMMENDATIONS

PA Summary

DoD Site #

OS38

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-130	ROADWAY EXPRESS INC	101 SPRIG DRIVE
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL

Year Bldg. Built: Circa 1950 Year Bldg. Removed: Post 1962 Site Area (SqFt): 26166

Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Open Storage

Secondary DoD Uses

None Identified

Post-Army Uses

Industrial Development

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

As of 1951, approximately 10,000 tons of crated materiel were stacked on an unpaved surface on the south side of Building W6. On 13 April 1951, Colonel R. S. Chavin, Ordnance Corps, approved a project estimate to pave this site (ref 537). This site was used in 1956 as the site for Transitory Shelter 1 (TS1). OS38 was used for the storage of missiles, with a DoD scheduled vacate date of December 1962 (ref 713).

Records Research Report Comments

OS38, located southeast of Building W6, covers an area 400 feet long by 200 feet wide. Open storage (OS) areas were used to stockpile large volumes of automotive parts, trucks, and materiel (ref 536).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Records indicate that this open storage area stored materiel and maintenance activities did not occur.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS39

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-020	ZOELLNER JAY	3701 MALLARD DRIVE
0080-090-030	ZOELLNER JAY	3781 MALLARD DRIVE
0080-090-200	PARACHINI BENICIA PROP LP	3948 TEAL COURT
0080-090-240	PARACHINI BENICIA PROP LP	3867 TEAL COURT
0080-090-250	PARACHINI BENICIA PROP LP	203 TEAL COURT
0080-090-260	GIBBS PLASTIC & RUBBER CO	3959 TEAL COURT
0080-090-290	DRESSER-RAND COMPANY	201 MALLARD DRIVE
0080-110-080	SOUTHERN PACIFIC CO	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

OS39 was used for vehicle storage in 1962 with a DoD scheduled vacate date of March 1964 (ref 713). In 25 June 1950 (the beginning of the Korean conflict), the Arsenal also received a large influx of materiel for shipment overseas. These shipments resulted in the open storage of supplies in the humid marine air and may have contributed to the deterioration of ferrous metal. Due to stringent shipment deadlines and lack of warehouse space, derusting, painting, fueling, and lubrication activities occurred in Area W's OS areas (as well as other OS areas at the Arsenal). These activities were known as maintenance in storage (MIS).

Records Research Report Comments

OS39, located north of Buildings CL1 and W6, is one of the largest open storage sites on the Arsenal. OS39 covers an area that is 1,200 feet long and ranges in width from approximately 150 feet at the south end to 500 feet at the north end. Open storage (OS) areas were used to stockpile large volumes of automotive parts, trucks, and materiel (ref 536).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army

PA Summary

DoD Site #

OS39

Area: W

Vessel Inventory

	Type	Original Owner	Size (Gal)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	UST	Unknown	10000	Steel	Mineral Spirits	Unknown	Unknown	Yes	<input checked="" type="checkbox"/>

Uses: Storage

Comments:

Vessel # 2	UST	Unknown	8000	Steel	Naptha	Unknown	Unknown	Yes	<input checked="" type="checkbox"/>
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Uses: Storage

Comments:

Furthest Stage of Environmental Investigation

PA

COMMENTS

WR Meadows of CA, Inc. reported unauthorized leaks from a 10,000-gal and an 8,000-gal steel UST containing mineral spirits and VM&P Naphtha, respectively in March 1986 (ref 1157). Records were not found to substantiate any MIS activities that took place at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS50

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-050	P G & E CO	
0080-040-070	KLOBAS FRANK	105 W CHANNEL ROAD
0080-040-530	STTE OF CALIFORNIA	100 INDUSTRIAL
0080-040-540	BENICIA CITY	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

Records Research Report Comments

OS50, located in the northwest corner of Area W, covers an area 800 feet long by 400 feet wide. Due to the large influx of automotive parts, trucks, and materiel from the closure of Stockton Ordnance Depot and the start-up of the Korean conflict, both occurring in 1950, OS50 was used mainly for storage of automotive parts and materiel in the early 1950s (ref 536). Records indicate that three 15,000-gallon diesel tanks and one 500-gallon underground waste oil tank were removed from the site in 1991. Four monitoring wells were installed following excavation of the fuel tanks (ref 548).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	UST	Unknown	15000	Unknown	Diesel	Unknown	1991	Unknown	<input checked="" type="checkbox"/>

Uses: Fuel Storage

Comments:

PA Summary

DoD Site #

OS50

Area: W

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 2	UST	Unknown	15000	Unknown	Diesel	Unknown	1991	Unknown	<input checked="" type="checkbox"/>
	Uses: Fuel Storage								
	Comments:								
Vessel # 3	UST	Unknown	15000	Unknown	Diesel	Unknown	1991	Unknown	<input checked="" type="checkbox"/>
	Uses: Fuel Storage								
	Comments:								
Vessel # 4	UST	Unknown	500	Unknown	Waste Oil	Unknown	1991	Unknown	<input checked="" type="checkbox"/>
	Uses: Storage								
	Comments:								

Furthest Stage of Environmental Investigation

RIFS

COMMENTS

In August 1999, the USACE performed OE construction safety support services. Services include the ID of 3 previously identified subsurface geophysical anomalies (Drain Grate Anomaly, Anomaly "I", & Anomaly "F") and to ensure that they are not OE or UXO-related materials (ref 1076). Geophysical anomalies appeared to be the result of buried fence posts and magnetic properties of the asphalt. No OE or UXO-related materials encountered (ref 1076). There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

PL4

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-140	BENICIA INDUSTRIES INC				
Year Bldg. Built	1942	Year Bldg. Removed	Post 1962	Site Area (SqFt)	830
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Rail Yard and Facilities Sites

DoD Uses

Loading Platform

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

PL4 was identified on a 1962 Building Zone List as being vacant (ref 713).

Records Research Report Comments

Buildings PL4 and PL5 were 830 ft² loading platforms (ref 196). PL4 is located in the south area of the loading/receiving railroad track west of Building W9, while PL5 is located in the north area of the loading/receiving railroad track west of Building W10. The platforms were used for loading and unloading materiel that was stored in Area W, such as small arms; .30 and .50 caliber machine guns; all types of mounts for machine guns, submachine guns, rifles, carbines, revolvers, pistols, shotguns, and rocket launchers; infantry trench mortars; and high explosives.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

PL5

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-040-450	KOERNER NORMAN D & B L	200 INDUSTRIAL			
Year Bldg. Built	1942	Year Bldg. Removed	Post 1954	Site Area (SqFt)	830
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Rail Yard and Facilities Sites

DoD Uses

Loading Platform

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

Appears on a 1954 map (ref 646).

Records Research Report Comments

Buildings PL4 and PL5 were 830 ft² loading platforms (ref 196). PL4 is located in the south area of the loading/receiving railroad track west of Building W9, while PL5 is located in the north area of the loading/receiving railroad track west of Building W10. The platforms were used for loading and unloading materiel that was stored in Area W, such as small arms; .30 and .50 caliber machine guns; all types of mounts for machine guns, submachine guns, rifles, carbines, revolvers, pistols, shotguns, and rocket launchers; infantry trench mortars; and high explosives.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

R5

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-050-650	LONGS DRUG STORES INC	4700 E SECOND STREET
0080-050-730	NAIKER RONNIE	4690 E SECOND STREET
0080-050-740	GOLD RUSH KETTLE KORN LLC	4690 E SECOND STREET
0080-050-750	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET
0080-050-760	FLEETVIEW BUSINESS CENTERII	4690 E SECOND STREET

Year Bldg. Built: 1953 Year Bldg. Removed: 1973-1998 Site Area (SqFt): 13416

Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Water and Firehouse Sites

DoD Uses

Reservoir (firewater)

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

Constructed in 1953 to hold 1 million gallons of water for fire fighting purposes.

Records Research Report Comments

No longer present

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Water Reservoir	US Army	1000000	Concrete	Fire Fighting Water	1953	Unknown	No	<input type="checkbox"/>

Uses: Water Storage

Comments: No longer present

Furthest Stage of Environmental Investigation

NONE

PA Summary

DoD Site #

R5

Area: W

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

Rail yard

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-440	BENICIA INDUSTRIES INC	
0080-040-550	KOERNER NORMAN D & B L	
0080-040-660	ROSE STEPHEN A	
0080-040-750	SUTTER JOHN H & ELOUISE C	155 E CHANNEL ROAD
0080-040-760	BENICIA FABRICATION INVESTORS	135 E CHANNEL ROAD
0080-250-130	BENICIA INDUSTRIES INC	
0080-250-170	LOEWENSTEIN PETER G	511 E CHANNEL ROAD
0080-250-200	BENICIA INDUSTRIES INC	
0080-250-210	LIQUID CARBONIC IND CORP	331 CHANNEL ROAD
0080-250-220	GONSALVES & SANTUCCI INC	207 E CHANNEL ROAD
0080-250-300	BENICIA INDUSTRIAL PARK LLC	393 E CHANNEL ROAD
0080-250-420	LOEWENSTEIN PETER G	479 E CHANNEL ROAD
0080-250-430	ALLEN JAMES L & ELSIE P	473 E CHANNEL ROAD

Year Bldg. Built **Year Bldg. Removed** **Site Area (SqFt)**

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

Records Research Report Comments

The rail yard portion of Area W contained an extensive rail system with several miles of track. There are two points of entry for the railroad tracks into Area W. One is located in the northwest section of Area W by OS50, while the other is in the middle of Area W at the western boundary with Area S. Several track spurs were located west of Buildings W9 and W10, and others lead to W11 and W12. The rail system included tracks to Building CL1 and W6. In an effort to control weeds and to prevent fires along the tracks, a then-generally accepted practice included the use of waste oil as a herbicide. Most of the railroad tracks within Area W have been removed, and what remains is owned by Union Pacific.

PA Summary

DoD Site #

Rail yard

Area: W

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Maintenance activities were conducted in Area I for locomotives. The site is still used as a railway. The railroad tracks have been in use since the closure of the former Arsenal and are considered to provide beneficial use to the current owners. Pursuant to Chapter 3, Section 7.2.3.5 of USACE Engineering Circular EC-200-3-7, DERP-FUDS Program Manual, dated 30 September 1999, beneficially used structures are ineligible for investigation under the FUDS Program.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

SA1

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-750	TRIOND	623 INDUSTRIAL			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	18346
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Small Arms Ammunition Storage Magazine

Secondary DoD Uses

None Identified

Post-Army Uses

SA1 was leased to Thomas Howard Doolan of Doolan Industries for metals processing from 1968 to 1976. Current use of buildings unknown.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In 1951, four igloos had to be vacated for the construction of Warehouses W9 and W10, which necessitated the movement of approximately 925 tons of small arms ammunition to Building SA1.

Records Research Report Comments

Buildings SA1 and SA2, located 100 feet northwest of Warehouse W4. Used as small arms ammunition storage magazines. They were built on concrete foundations using concrete arch wall construction. Both buildings have 17,100 ft2 of usable space (ref 196). These buildings provided the storage space needed for the output of the clip, belt, and link plant.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

SA2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-760	TRIOND	605 INDUSTRIAL			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	18346
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Small Arms Ammunition Storage Magazine

Secondary DoD Uses

None Identified

Post-Army Uses

SA2 was also leased to Thomas Howard Doolan of Doolan Industries for metals processing from 1969 to 1976.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Buildings SA1 and SA2, located 100 feet northwest of Warehouse W4. Used as small arms ammunition storage magazines. They were built on concrete foundations using concrete arch wall construction. Both buildings have 17,100 ft² of usable space (ref 196). These buildings provided the storage space needed for the output of the clip, belt, and link plant.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

Tank test track/shop

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-060-190	CALWEST INDUSTRIAL HOLDINGS	539 STONE ROAD
CAL TRANS Right-of-Way	STATE OF CALIFORNIA	

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

Storage Igloos/Chemical Weapons Materiel Storage Sites

DoD Uses

Mechanical Performance Tests

Secondary DoD Uses

None Identified

Post-Army Uses

Industrial development and a PG&E electrical substation.

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

In 1958, a proposal was submitted for an improved tank test track to be constructed along the igloo storage roads. This request was made, in part, due to the problems with tank test driving on igloo storage roads. Access became limited during foul weather, which necessitated the use of public roads. Records did not indicate if the improvement was accomplished. A second tank test track in Area S was used until 1964 (see Area S).

Records Research Report Comments

A tank test track and maintenance shop was located in the easternmost portion of Area W from 1949 to 1958.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Portions of the test track still exists as paved roads. The maintenance shop no longer exists. The area has been developed and used beneficially.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

TO59

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL			
Year Bldg. Built	Circa 1945	Year Bldg. Removed	1952	Site Area (SqFt)	2400
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Barracks

Secondary DoD Uses

None Identified

Post-Army Uses

Building removed by Army

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Temporary barracks demolished in 1952 (ref 650).

Records Research Report Comments

Removed to make room for transitory shelters.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

TS1

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-130	ROADWAY EXPRESS INC	101 SPRIG DRIVE
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

By end of 1956, transitory shelter/warehouses for NIKE missiles. In 1962, identified as Barracks.

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In 1956, the Arsenal took delivery of four transitory shelters from the Lordstown Ordnance Depot in Ohio. By the end of 1956, two of these transitory shelters were erected adjacent to Building CL1 and were used as warehouses for storing NIKE guided missile bodies.

Records Research Report Comments

The shelters were made of corrugated metal and were constructed on a concrete pier foundation. Transitory Shelter (TS) 1 was 60 feet wide by 480 feet long and was erected on the site of the former barracks (Building TO59, ref 605). In 1962, TS1 was identified by the DoD as Barracks with a vacate date scheduled for June 1963 (ref 713). Records research did not indicate when or why the barracks were constructed in TS1, however, there was a housing crunch in Benicia following the Korean conflict. There was inadequate defense housing at the Arsenal, and by February 1962, the Benicia Housing Authority could only fill 294 of 3,548 housing requests (ref 165). Building no longer present.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage of NIKE guided missiles.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

TS2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

Owner Name

Site Address

CAL TRANS Right-of-Way | STATE OF CALIFORNIA |

Year Bldg. Built 1956 Year Bldg. Removed 1962-1998 Site Area (SqFt) 5483

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

By end of 1956, transitory shelter/warehouses for NIKE missiles. In 1962, identified as Barracks.

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In 1956, the Arsenal took delivery of four transitory shelters from the Lordstown Ordnance Depot in Ohio. By the end of 1956, two of these transitory shelters were erected adjacent to Building CL1 and were used as warehouses for storing NIKE guided missile bodies.

Records Research Report Comments

TS2 was 60 feet wide by 140 feet long and was built south of Building CL1. TS2 was identified as vacant 15 June 1962 (ref 713). Building no longer present.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage of NIKE guided missiles.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

TS3

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-240	CALWEST INDUSTRIAL HOLDINGS	
0080-040-470	CALWEST INDUSTRIAL HOLDINGS	
0080-250-120	RWL INVESTMENTS INC	345 INDUSTRIAL
0080-250-290	CALWEST INDUSTRIAL HOLDINGS	363 INDUSTRIAL

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

In 1955, 21,000 tons of World War II surplus materiel was stored under canvas on 41,843 pallets throughout the Arsenal. At that time, Arsenal inventories included 15,188 tons of currently used items, 21,430 tons of World War II-era items, and 36,835 units of vehicles and artillery that required maintenance in storage (ref 536). In 1956, four transitory shelters were received by the Arsenal from the Lordstown Ordnance Depot in Ohio.

Records Research Report Comments

TS3 and TS4 were erected west of Building W10 to replace canvas tents previously used to protect the Arsenal inventory from the elements. The transitory shelters were made of corrugated steel and were built on a concrete pier foundation. Each shelter was 60 feet wide by 480 feet long and had 28,000 ft² of usable storage space. The buildings are no longer present. Available records did not indicate when the buildings were removed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

COMMENTS

PA Summary

DoD Site #

TS4

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-240	CALWEST INDUSTRIAL HOLDINGS	
0080-040-470	CALWEST INDUSTRIAL HOLDINGS	
0080-250-120	RWL INVESTMENTS INC	345 INDUSTRIAL

Year Bldg. Built Year Bldg. Removed Site Area (SqFt)

Current Land Use

OPERATIONAL HISTORY

DoD Use Type

DoD Uses

Secondary DoD Uses

Post-Army Uses

Flooring

Disposal Information

Activities (inside/outside)

Records Research Report Addenda Data

In 1955, 21,000 tons of World War II surplus materiel was stored under canvas on 41,843 pallets throughout the Arsenal. At that time, Arsenal inventories included 15,188 tons of currently used items, 21,430 tons of World War II-era items, and 36,835 units of vehicles and artillery that required maintenance in storage (ref 536). In 1956, four transitory shelters were received by the Arsenal from the Lordstown Ordnance Depot in Ohio.

Records Research Report Comments

TS3 and TS4 were erected west of Building W10 to replace canvas tents previously used to protect the Arsenal inventory from the elements. The transitory shelters were made of corrugated steel and were built on a concrete pier foundation. Each shelter was 60 feet wide by 480 feet long and had 28,000 ft2 of usable storage space. The buildings are no longer present. Available records did not indicate when the buildings were removed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

COMMENTS

RECOMMENDATIONS

PA Summary

DoD Site #

W1

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-060	DULOP JAMES	150 INDUSTRIAL
0080-040-070	KLOBAS FRANK	105 W CHANNEL ROAD

Year Bldg. Built: 1942 Year Bldg. Removed: Not applicable Site Area (SqFt): 20000

Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Incrnt Materiel Warehouse

Secondary DoD Uses

None Identified

Post-Army Uses

1973: Vintage Furniture Company for manufacture of furniture (ref 418). 1975 to 1976: Hanco Pacific Imports for import and assembly of manufactured furniture (ref 587). 1977: Jim Dunlop for manufacture and assembly of musical instruments and John A. Butler, dba Diablo Pre-Stain Co., for staining of lumber (ref 702). Records research did not identify the current use of the building.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

By 1958, based on blueprints and aerial photographs, Building W1 has been moved 4,400 feet north of its original construction site (ref 605). According to the construction phasing document published in 1958, the material that was stored in W1 was of such a nature that it must be stored in relatively remote areas (ref 718). No more detail is given as to the nature of the material. By 1962, Building W1 was used for vehicle storage with a DoD vacate date scheduled for 31 May 1963 (ref 713).

Records Research Report Comments

Built on a concrete foundation with steel walls and corrugated iron roofing, and has 19,000 ft2 of usable space. Building W1 was originally used to store several types of inert materiel, such as component parts, automobile parts, and raw materials. This building originally was located 100 feet northwest of the westbound Southern Pacific Railroad viaduct, near the current location of Building W3.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage of materiel.

PA Summary

DoD Site #

W1

Area: W

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W2

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-060	DULOP JAMES	150 INDUSTRIAL
0080-040-070	KLOBAS FRANK	105 W CHANNEL ROAD

Year Bldg. Built: 1942 Year Bldg. Removed: Not applicable Site Area (SqFt): 20000

Current Land Use: Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Inert Material Warehouse

Secondary DoD Uses

None Identified

Post-Army Uses

1973: Vintage Furniture Company for manufacture of furniture (ref 418). 1975-1976: Hanco Pacific Imports for import and assembly of manufactured furniture (ref 587). 1977: Jim Dunlop for manufacture and assembly of musical instruments, and John A. Butler, dba Diablo Pre-Stain Co. for staining of lumber (ref 702). Records research did not identify the current use of the building.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Based on a safety inspection dated 14 February 1957, acids were handled and/or stored in Building W2. According to the report, this building housed large containers of sulfuric acid in damaged wooden crates. Damage to the crates was not due to acid leakage and repairs were made to the crates (ref 110). According to the construction phasing document published in 1958, the material that was stored in W2 was of such a nature that it must be stored in relatively remote areas (ref 718). No more detail is given as to the nature of the material. By 1962, Building W2 was also used for vehicle storage with a DoD vacate date scheduled for 31 May 1963 (ref 713).

Records Research Report Comments

Building W2, originally located northwest of Building W1 near Building W3. Built on a concrete foundation with steel walls and corrugated iron roofing and has 19,000 ft² of usable space. Like Building W1, this building was moved 4,400 feet north of its original location by 1958 (ref 605). Aerial photos show a new road was built in the area where Buildings W1 and W2 were originally constructed. Building W2 was originally used to store different types of inert materiel.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

PA Summary

DoD Site #

W2

Area: W

COMMENTS

There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W3

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-080-750	TRIOND	623 INDUSTRIAL			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	20000
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Inert Material Warehouse

Secondary DoD Uses

None Identified

Post-Army Uses

1967-1979: Babcock and Wilcox for storage, fabrication, and distribution of steam generating equipment and heavy industrial equipment (ref 428, 585, 587, and 702). Records research did not identify the current use of the building.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

By 1958, NIKE missile body parts such as missile fins, booster fins, thrust structures, igniters (part XM24A1), batteries (part BB-401/U), warheads (parts T26E4, T37, and T38), warhead accessory kits, red fuming nitric acid, and starting fuels (ref 140) were stored in this warehouse. According to the construction phasing document published in 1958, the material that was stored in W3 was of such a nature that it must be stored in relatively remote areas (ref 718). No more detail is given as to the nature of the material.

Records Research Report Comments

Building W3, located northwest of the original location of Building W2. Concrete foundation with steel walls and corrugated iron roofing and has 19,000 ft² of usable space.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W4

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-080-750	TRIOND	623 INDUSTRIAL
Year Bldg. Built	1942	Year Bldg. Removed
		Not applicable
Current Land Use	Industrial-General	
	Site Area (SqFt)	20000

OPERATIONAL HISTORY

DoD Use Type

Materiel Warehouses

DoD Uses

Inert Materiel Warehouse

Secondary DoD Uses

None Identified

Post-Army Uses

1967-1976: Thomas Howard Doolan, dba Doolan Industries for metal processing (refs 584 and 587). Records research did not identify the current use of the building.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

According to the construction phasing document published in 1958, the material that was stored in W4 was of such a nature that it must be stored in relatively remote areas (ref 718). No more detail is given as to the nature of the material.

Records Research Report Comments

Building W4, located northwest of Building W3. It was built on a concrete foundation with steel walls and corrugated iron roofing and has 19,000 ft2 of usable space. Building W4 was used to store the same types of materiel as Building W3. Missile body parts were stored in metal and wooden boxes. Red fuming nitric acid was stored in aluminum containers, and starting fuel was stored in hermetically sealed cans containing glass containers packed in asbestos, with six cans per crate (ref 140).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage of materiel.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W6

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-090-360	KOERNER NORMAN D & BETTY L	3801 SPRIG DRIVE			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	112368
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Storehouse

Secondary DoD Uses

None Identified

Post-Army Uses

1973-1979: Chevron Chemical warehousing, agricultural and industrial chemicals (refs 587, 589 & 702).

Flooring

Concrete foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

The building was seriously damaged in 1944 by the Port Chicago ammunition blast (which occurred approximately eight miles away). The blast splintered timbers and caused a partial collapse of Building W6's roof; as a result, the structure had to be reinforced to support the roof. As the Arsenal's mission changed in 1955 to include repairing guided missiles, Building W6 accommodated the storing of guided missiles and their component parts. Initially, only 10 percent of the floor space was used for this function. Approval of funds to repair Building W6's roof, which was again in disrepair by 1955 (ref 57), increased the building's usable floor space to 109,000 ft² (ref 196).

Records Research Report Comments

Largest warehouse built in Area W during the World War II era. Built on a concrete foundation with frame wall construction and wood truss-post roof construction. Building W6 covers 112,368 ft² and is located 100 feet north of the eastern corner of Building CL1. Building W6 was used to store small arms, automatic weapons, light field artillery, parts, supplies, tools, and equipment for weapons.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There were no maintenance activities associated with this site, only used for storage.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W9

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-250-280	CALWEST INDUSTRIAL HOLDINGS	401 INDUSTRIAL			
Year Bldg. Built	1952	Year Bldg. Removed	Not applicable	Site Area (SqFt)	283013
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Materiel Warehouses

DoD Uses

Warehouse/Storage

Secondary DoD Uses

None Identified

Post-Army Uses

1970 to 1976: Army and Air Force Exchange leased Bays 1, 2-A, and 2-B for wholesale and distribution (ref 587, 418, and 580) and the Chrysler Boat Corporation leased Bay 5 for warehousing of boats and office space (ref 587 and 582). 1970-1975: JC Penney leased Bays 3 and 4 for storage and marking (ref 587). 1973: Solano Contract Warehouse Corp. leased the 2nd floor for a warehousing operation (ref 418), Johns-Manville Sales Corp. leased Bay 1 for warehousing and distribution of building materials (ref 418) and Unique Food Operations leased the cafeteria (ref 418). 1974: Ace Hardware leased the cafeteria (ref 587). 1976: Hickmott Foods, Inc. leased Bay 5 for canned food storage (ref 586) and Automatic Plastic Molding Co. leased Bay 2 for manufacture of plastic products. 1977: Ace Hardware leased Bay 5 for storage of merchandise (ref 701), California and Hawaiian Sugar Co. leased Bay 1 for storage and warehousing of sugar products (ref 702) and the Department of Transportation leased the 2nd floor for office space (ref 702).

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

As a result of the deactivation in 1953 of Camp San Luis Obispo in Southern California, the Arsenal received 2,000 tons of materiel. Building W9 provided a storage area for this materiel, which included general automotive supplies and vehicles. Petroleum, oils, and lubricants (POL) and solvents were handled near Buildings W9 and W10. Based on a memorandum dated 4 February 1955, the Commanding Officer at the US Naval Radiological Defense Laboratory apparently requested the construction specifications of Building W9 (ref 69). However, no record of any radioactive material storage in this building has been located. In 1959, a data processing system for accounting and inventory control was installed in an air-conditioned room in Building W9 to track the large inventory of parts and supplies within Buildings W9, W10, W11, and W12.

Records Research Report Comments

Located 1,200 feet north of Building W4 in the middle of Area W. Largest warehouse built at the Arsenal, covering 283,000 ft² (including a 201 foot by 202 foot area for office space). It has a reinforced concrete foundation and concrete block walls (ref 196), and was built by Louis C. Dunn, Inc., and Carrico and Gautier, Inc. Prior to the construction of Building W9, the lack of available storage space created problems with the placement and tracking of materiel received at the Arsenal. At times this resulted in the temporary loss or misplacement of supplies (ref 536). Two 30,000-gallon bunker fuel tanks were identified as being associated with Building W9 in 1957 (ref 167).

PA Summary

DoD Site #

W9

Area: W

ENVIRONMENTAL SUMMARY

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	UST	US Army	30000	Unknown	Bunker Fuel	Unknown	Unknown	Unknown	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Status unknown

Vessel # 2	UST	US Army	30000	Unknown	Bunker Fuel	Unknown	Unknown	Unknown	<input type="checkbox"/>
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Uses: Fuel Storage

Comments: Status unknown

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Status of the two 30,000 gallon bunker fuel USTs are unknown and if they are the same USTs removed in 1993 at W10.

RECOMMENDATIONS

Additional research is recommended to determine the status of these USTs.

PA Summary

DoD Site #

W10

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-040-460	CALWEST INDUSTRIAL HOLDINGS	243 INDUSTRIAL
0080-250-290	CALWEST INDUSTRIAL HOLDINGS	363 INDUSTRIAL

Year Bldg. Built 1952 Year Bldg. Removed Not applicable Site Area (SqFt) 161540

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

Material Warehouses

DoD Uses

Warehouse/Storage

Secondary DoD Uses

None Identified

Post-Army Uses

In 1971, Ace Hardware leased the building from Benicia Industries, Inc., for office space and hardware warehousing. Records research did not identify the current use of the building.

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Based on a memorandum dated 4 February 1955, the Commanding Officer at the US Naval Radiological Defense Laboratory apparently requested the construction specifications of Building W10 (ref 69). However, no record of any radioactive material storage in this building has been located.

Records Research Report Comments

Covers 161,500 ft² and has a reinforced concrete foundation and concrete walls. This was the first of several very large warehouses constructed to house materiel that had previously been stored in transitory shelters and open areas. According to the Underground Storage Tank Closure Report for the Property Located at 433 Industrial Way, Benicia, California, May 24, 1993 (ref 480), two 15,000-gallon USTs were removed from the area between the east side of Building W10 and the Southern Pacific railroad tracks. According to the report, the USTs stored bunker fuel. Upon removal of the tanks, it was determined that the tanks were in excellent condition with no holes or rusted areas. A total of 1,800 gallons of liquid was removed from the tanks and transported off-site for recycling. The total volume of soil removed from the excavation after tank removal was approximately 50 cubic yards. Records research did not identify where the excavated soil was deposited but is assumed to have been properly transported to a disposal facility. Groundwater samples collected from the excavation had no detectable concentrations of benzene, toluene, ethylbenzene, xylenes, or total recoverable petroleum hydrocarbons as diesel. No further action was required by SCDDEM as a result of the tank removals.

PA Summary

DoD Site #

W10

Area: W

ENVIRONMENTAL SUMMARY

Vessel Inventory

	Type	Original Owner	Size (Gal)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	UST	Unknown	15000	Unknown	Bunker fuel	Unknown	5/24/93	Unknown	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Tank in excellent condition.

Vessel # 2	UST	Unknown	15000	Unknown	Bunker fuel	Unknown	5/24/93	Unknown	<input type="checkbox"/>
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Uses: Fuel Storage

Comments: Tank in excellent condition.

Furthest Stage of Environmental Investigation

RIFS

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W11

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-070-040	SPK-INDUSTRIAL PORTFOLIO LLC	597 INDIANA STREET
Year Bldg. Built	1954	Year Bldg. Removed
		Not applicable
Current Land Use	Industrial-General	Site Area (SqFt)
		241945

OPERATIONAL HISTORY

DoD Use Type

Materiel Warehouses

DoD Uses

Warehouse/Storage

Secondary DoD Uses

None Identified

Post-Army Uses

BAY 1: 1970-1976; Basic Vegetable Products for warehousing and distributing of food products (ref 587 and 584). 1980s; Blackburn Leasing, unknown business operations. 1990s; Santa Clara Warehouse, unknown business operations. 1990s; Anchor Glass containers, unknown business operations. 1990s; Vitro Packaging, for warehousing and distribution of glass bottles. Oct 1997-Sept 2002; Benicia Industries for offices, warehousing, and distribution of rice and grains. (ref 1143).
 BAY 2: 1973?-1976?; Crown Zellerbach for warehousing and distribution of paper products. 1970?-1976? Basic Vegetable Products for warehousing and distribution of food products. 1980s; Blackburn Leasing, unknown business operations. 1990s; Vitro Packaging for warehousing and distribution of glass bottles. Oct 1997-Sept 2002; Benicia Industries for offices, warehousing, and distribution of rice and grains. (ref 1143).
 BAY 3: 1974-1978, 1980s; Jacuzzi Research for manufacturing, assembly and distribution of jacuzzi's. 1990s; Vitro Packaging for warehousing and distribution of glass bottles. Oct 1997-Sept 2002; Benicia Industries for offices, warehousing, and distribution of rice and grains. (ref 1143).
 BAY 4: 1974; L.D. Sherman Co. for warehousing and distribution of office supplies. 1980s and 1990s; Welch Distribution for warehousing and distribution of fast food supplies. 1990s; Meyers Corp (LeCook's Ware) for warehousing and distribution of cookware. 1990s; GTE Mobilnet, unknown business operations. Jan 1997-Dec 2001; Kranson Industries (aka: Caliber Packaging) for offices, warehousing, and packaging of wine. (ref 1143).
 BAY 5: 1973-1976; Army Air Force Exchange for warehousing and distribution of various goods. 1976 and 1980s; Raph's Pugh for warehousing and distribution of medical supplies. 1990s; Meyers Corp. (LeCook's Ware) for warehousing, packaging, and distribution of cookware. Mar 1998-Feb 2001; Boisset Wines for warehousing and distribution of wine. (ref 1143).
 BAY 6: 1973; Lillarol Company for warehousing of electrical equipment. 1973-1976; Crown Zellerbach for warehousing and distribution of paper products. 1980s; Whirlpool Jacuzzi for manufacturing of whirlpool baths. 1980s and 1990s; Staub Metals for packaging and distribution of steel sheeting. 1990s; Whirlpool Jacuzzi for manufacturing of whirlpool baths. Feb 1998-Jan 2003; F&G Biagi Corp. (Biagi Brothers) for tractor trailer maintenance. (ref 1143).

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Based on a memorandum dated 4 February 1955, the Commanding Officer at the US Naval Radiological Defense Laboratory apparently requested the construction specifications of Building W11 (ref 69). However, no record of any radioactive material

PA Summary

DoD Site #

W11

Area: W

storage in this building has been located.

Records Research Report Comments

Building W11, located 500 feet east of Building W9. Covers 241,900 ft². It has a reinforced concrete foundation and concrete block walls. W11 stored material largely consisting of automotive parts and supplies. The contractors of warehouse W11 reportedly used large amounts of water to wash down the sides and ends of the warehouse to stop the action of acid that had been applied as a cleaning agent (ref 82).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

SI

COMMENTS

The address for W11 is 635 Indiana Street. Several investigations have been conducted at W11 and a nearby warehouse, W12, since 2001. These activities are due to post Army activities that occurred between 1970 and 1983 in bay 6 of W12 (4186 Park Road). Please see W12 for information about these activities. There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

W12

Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-070-050	SPK-INDUSTRIAL PORTFOLIO LLC	4347 IOWA STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1954	Not applicable	241945
Current Land Use		
Industrial-General		

OPERATIONAL HISTORY

DoD Use Type

Materiel Warehouses

DoD Uses

Warehouse/Storage

Secondary DoD Uses

None Identified

Post-Army Uses

BAY 1: 1970s; Owens-Illinois for warehousing, manufacturing, and distribution of fiber cans. 1970s; U.S. Steel Corp. for the warehousing of steel. 1980s; General Can for warehousing, manufacturing, and distribution of paper cans. 1980s, 1990s, 2000s, Mar. 1993 - Feb 2003; Sonoco Products Inc. for manufacturing and distribution of paper cans. (ref 1143).

BAY 2: 1973; U.S. Steel for warehousing of steel. 1972-1977; Chevron Chemical Corporation for the warehousing of agricultural and industrial chemicals. 1980s; General Can for warehousing, manufacturing, and distribution of paper. 1990s, Mar. 1993 - Feb 2003; Sonoco Products Inc. for warehousing, manufacturing, and distribution of paper cans. (ref 1143).

BAY 3: 1973; U.S. Steel for warehousing of steel. 1972-1976; O'Dell Manufacturing for the warehousing, manufacturing, and distribution of glass aquariums. 1980s; Syspac, unknown business operations. 1990s; Macro Dist., unknown business operations. 1990s; Meyer Corp./Post & Sons Trucking for the warehousing, packaging, and distribution of cookware. 1990s, Feb. 1998 - Jan 2003; F&G Biagi Corp.(Biaggi Brothers) for warehousing and distribution of beer and wine. (ref 1143).

BAY 4: 1973; U.S. Steel for warehousing of steel. 1970-1977; E-T Industries for casting, finishing, packaging, and distributing of automotive parts. 1980s; LD Sherman(Marathon) for warehousing and distributing of office supplies. 1990s and 1980s; Duo-fab, Inc. for manufacturing and distributing of foam padding for shipment. 1990s; Macro Dist., unknown business operations. 1990s; Meyer Corp./ Post & Sons Trucking for warehousing, packaging, and distributing of cookware. 1990s, 2000s, Feb. 1998 - Jan 2003; F&G Biagi Corp.(Biaggi Brothers) for warehousing and distributing of beer and wine. (ref 1143).

BAY 5: 1973; U.S. Steel for warehousing of steel. 1970-1977; E-T Industries for casting, finishing, packaging, and distribution of automotive parts. 1980s; LD Sherman(Marathon) for warehousing and distribution of office supplies. 1990s; Altas Van Lines for moving and storage. 1990s; Metro Van & Storage for moving and storage. 1990s to 2000s, Feb. 1998 - Jan 2003; F&G Biagi Corp. (Biaggi Brothers) for warehousing and distribution of beer and wine. (ref 1143).

BAY 6: 1973; U.S. Steel for warehousing of steel. 1970-1977; E-T Industries for casting, finishing, packaging, and distribution of automotive parts. 1980s; LD Sherman (Marathon) for warehousing and distribution of office supplies. 1990s, 1980s, July 1989 - June 1999; US Can for manufacturing, distribution, and warehousing of metal cans. 1980s-2000s; Fast Break Consolidators Hub City Golden Gate Terminals, unknown business operations. 2000s; Chipman Corporation for moving and storage. (ref 1143).

Flooring

Concrete Foundation

Disposal Information

None Identified

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Based on a memorandum dated 4 February 1955, the Commanding Officer at the US Naval Radiological Defense Laboratory

PA Summary

DoD Site #

W12

Area: W

apparently requested the construction specifications of Building W12 (ref 69). However, no record of any radioactive material storage in this building has been located.

Records Research Report Comments

Building W12, located east of Building W11. Constructed in 1954 as a warehouse covering 241,900 ft². It has a reinforced concrete foundation and concrete block walls. A network of railroad tracks ran between Buildings W11 and W12 to provide easy access for loading and unloading of materiel and supplies. The contractors of warehouse W12 reportedly used large amounts of water to wash down the sides and ends of the warehouse to stop the action of acid that had been applied as a cleaning agent (ref 82).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

SI

COMMENTS

The address for W12 is 4186 Park Rd. (ref 1144). In June 2001, Spieker Properties conducted a Phase II subsurface investigation within the 4186 Park Road facility building to assess potential source areas for TCE and HVOCs detected at the site and to further assess the horizontal extent of TCE and HVOCs outside the building. Soil samples were analyzed for VOCs, TPH-g, and TPH-d. All three chemicals were detected in at least one of the samples. No MTBE was reported in any of the samples. Groundwater impacted by TCE and its breakdown products exist at the site and appear to be migrating to the south from the site. Groundwater impacted by 1,1-DCA appears to be limited to the area beneath the 4186 Park Road facility. Groundwater impacted by TPH-g and TPH-d exists at the site, generally where TCE is found. Evidence exists that natural attenuation of TCE is occurring at the site. The source(s) of the groundwater contamination appeared to be associated with the 4186 Park Road facility or the adjacent bay (656 Stone Road). (ref 1142). Later reports narrow down the source area as 4196 Park Road (bay 6). The RWQCB requested additional information from existing and prior tenants of W12 about past or current operations, time period of operation, list of chemicals stored, estimates of amounts, location of chemical, locations of past spills, etc. Sonoco Products reported to RWQCB in November 2001 that as a producer of composite cans for food and drinks, it did not have any USTs. All chemicals were stored in 55-gallon or 300-500-gallon totes. Chemicals used included water-based adhesives, solvent- and water-based sealants, and lubricants (ref 1145). When US Can occupied 4186 Park Road and 635 Indiana Street between 1989 and 1996, it assembled one-gallon cans using pre-coated tinplate sheets. Chemicals used/stored included solvents and oils (ref 1146). In 1974, E-T Industries (E-T), manufacturers of Aluminum wheels who occupied by W11 and W12, was suspected of violating a sewer ordinance by dumping oil, grease, and chrome sludge deposits (ref 1147). Also, a degreaser was in use by E-T in W12 as of June 1979. (ref 1147). A review of public records and regulatory documents revealed that E-T occupied W-11 & W-12 between 1970/71 and 1983 and operated a TCE (and later, 1,1,1 trichloroethane [1,1,1-TCA] (ref 1148) degreaser, a sump, and a TCE filtering and recycling system. Interviews with several former E-T employees confirmed the historical use & location of a ~300-gal conveyerized TCE degreaser. One interviewee reported a substantial TCE spill of up to 300 gallons, and several other interviewees reported numerous and long-term poor historical waste management practices (BC 1149). An Order was issued by the RWQCB for the environmental clean-up at 4196 Park Road. In 2001, five monitoring wells were installed. A Work Plan for Subsurface Investigation in December 2002 outlined additional data collection: 1) to assess other potential upgradient source areas; 2) to evaluate the current suspected on-site source areas, including the former TCE degreaser; 3) to assess the lateral and vertical extent of VOCs and petroleum HCs in groundwater; and 4) to evaluate water quality and water level trends. This workplan also proposes the installation of more monitoring wells (ref 1156). The status of the environmental investigation at 4196 Park Road is unknown. There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

Waste Areas/Open Ditch
 Area: W

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-090-280	PARACHINI BENICIA PROP LP	
0080-090-610	PARACHINI BENICIA PROP LP	3701 INDUSTRIAL
0080-110-260	BENICIA INDUSTRIES INC	

Year Bldg. Built 1942 Year Bldg. Removed Unknown Site Area (SqFt) 21624

Current Land Use Industrial-General

OPERATIONAL HISTORY

DoD Use Type

NIKE Missile Repair and Support Facilities

DoD Uses

Waste Areas/Open Ditch

Secondary DoD Uses

None Identified

Post-Army Uses

Benicia Industries, Inc., granted dumping rights under the lease to Weldon Leather to dispose of their waste leather in the area. It was estimated that 10,000 to 12,000 cubic yards of scrap leather were dumped between 1965 and early 1969 when Benicia Industries, Inc., stopped the practice. The leather waste was to be disposed of in the future at an approved dump in Contra Costa County between Martinez and Concord (ref 594). According to the minutes of a meeting of the Benicia Industries, Inc., Executive Committee, dated 30 April 1974, a Cleanup and Abatement Order was issued by the Regional Water Quality Control Board (RWQCB) that required Benicia Industries, Inc., to remove all scrap leather dumped in the vicinity of CL1 by Weldon Leather. Recorded in the minutes of Executive Committee meetings, dated 25 and 26 June 1974, the costs for removing the scrap leather were higher than previously estimated because the volume of scrap material uncovered was much greater than anticipated. The bulk of the material had been removed and the RWQCB had granted additional time to complete the final cleanup after the area dried out (ref 593).

Flooring

Unknown

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

An open ditch, identified on Drawing 5765, was used to dispose of waste from the septic tanks (Buildings 194 and 195), CL1, CL2, and W6 (ref 606). The drawing did not identify where the open ditch drained to, but it appeared to lead directly to the drainage canal (Sulfur Springs Creek Drainage Canal). The open ditch is located west of Building CL1, and the waste areas are indicated to the east and south of Building CL1 (refs 605 and 606).

Records Research Report Comments

Effluent from the paint spray booth in CL1 was discharged into the flushing room, component room, and sanitary sewer. The flushing room and component room had drain lines installed that discharged to open bottom field drains. The western waste area, south of CL1, is likely the area of the former Weldon leather disposal area.

ENVIRONMENTAL SUMMARY

PA Summary

DoD Site #

Waste Areas/Open Ditch

Area: W

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Research indicates that waste from the NIKE Missile Repair and Support Facilities entered this open ditch. The site of the former NIKE Missile Repair and Support Facilities was also beneficially used and post-Army use into the open ditch may have occurred. An interview was conducted in 2003 with the General Manager of Amports, Inc. (formerly Benicia Industries, Inc) and a former employee of Benicia Industries, Inc. Benicia Industries, Inc and now Amports, Inc. has owned the parcels in this area since the Army left. The purpose of these interviews were to determine if there were any records remaining from the 1970s disposal of scrap leather by Weldon Leather and the subsequent clean-up in this area and then determine if there was any data available to determine the presence or absence of suspected impacts from wastes discharged from CL1. Unfortunately, there were no records remaining. The former employee did locate the area of the former disposal area but apparently no samples were taken.

RECOMMENDATIONS

Site requires further investigation for possible releases of solvents from waste discharged from CL1.