

ENVIRONMENTAL REPORT

from NAS Jacksonville

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POTENTIAL SOURCES OF CONTAMINATION ON NAS JACKSONVILLE

Forty-five areas on NAS Jacksonville have been identified as potential sources of contamination (PSC). The identification process is the first of a three-phase installation restoration program. The preliminary assessment/site investigation study (PS/SI) involved a record review at NAS Jacksonville as well as interviews with former and present long-term employees concerning past activities and waste disposal practices. Groundwater and soil sampling and analysis for suspected contaminants were also a part of this process.

Each PSC has been preliminarily classified in one of the following categories:

RI/FS	-	Remedial Investigation/Feasibility Study
SS	-	Site Screening or
NFA	-	No further action

The petroleum contamination agreement is indicated for potential sources of contamination being investigated and, if necessary, cleaned up under an agreement between the Navy and the Florida Department of Environmental Regulation.

PSC 1 Patrol Road Turnaround NFA

DESCRIPTION: North of the patrol road turn-around along the shoreline of the St. Johns River. Approximately 50 x 300 feet.

HISTORY: The periodic disposal of construction debris to reclaim land and provide shoreline protection.

SUSPECTED CONTAMINANTS: Rubble, consisting mostly of concrete and asphalt.

PSC 6

Fuel Farm (Steam Pit)

NFA

DESCRIPTION: A fuel oil leak occurred in a steam pit pipe at a fuel pipeline connection.

HISTORY: An unknown quantity of fuel oil leaked into the underground concrete lined steam pit which contained some water. The Navy pumped the fuel oil out of the pit.

SUSPECTED CONTAMINANTS: No. 6 fuel oil.

PSC 7

Gas Hill

Petroleum Control Agreement

DESCRIPTION: West of Catapult Road.

HISTORY: Explosions involving underground tanks occurred in this area in 1978 and 1979. In 1978, lightning caused an explosion and fire in an underground tank. The residual fuel, not consumed by fire, was pumped into tank trucks and transported offsite for disposal as spent oil. It is known that leaks from some existing tanks and their associated piping exist.

SUSPECTED CONTAMINANTS: Residual fuel.

PSC 8

Vacant Lot, Fuel Farm Area

SS

DESCRIPTION: East side of Catapult Road. Area is approximately 200 x 100 feet.

HISTORY: Area used to park five fighter planes.

SUSPECTED CONTAMINANTS: Possibly abrasive blast grit and two disintegrated plastic bags of fine granular materials.

RI/FS	-	Remedial Investigation/Feasibility Study
NFA	-	No Further Action
SS	-	Site Screening

PSC 12

Old Test Cell Building

RI/FS

DESCRIPTION: Vicinity of the old test cell area and Building 101 K. There were interconnections of the storm and sanitary sewers with the building roof drains.

HISTORY: Numerous chemical spills reported at this site. The cross connections were removed in 1989.

SUSPECTED CONTAMINANTS: Specific chemicals are not known.

PSC 13

Radium Paint Waste Disposal Pit

RI/FS

DESCRIPTION: North of former Building 167. Area is 40 x 50 feet and one foot deep.

HISTORY: The pit contains paint wastes from aircraft instrument dial painting operations at NADEP during and after World War II and through the late 1950s. The contaminated soil reportedly was moved to the Radioactive Waste Fill Area, PSC No. 18.

SUSPECTED CONTAMINANTS: Radium paint waste.

PSC 14

Battery Shop

RI/FS

DESCRIPTION: Building 125.

HISTORY: The shop contains a seepage pit where the Navy disposed of approximately 100 gallons of waste from 1959 to 1982.

SUSPECTED CONTAMINANTS: Acid from lead-acid batteries.

PSC 15

Solvent and Paint Sludge Disposal Area

RI/FS

DESCRIPTION: South of the paint shop, Building 868. Approximately 100 x 100 feet.

HISTORY: Navy disposed of solvent and paint wastes until 1978.

SUSPECTED CONTAMINANTS: Solvents and paint sludges.

RI/FS - Remedial Investigation/Feasibility Study

NFA - No Further Action

SS - Site Screening

PSC 19

Old Gas Station

Petroleum Control Agreement

DESCRIPTION: Building 48.

HISTORY: The PSC contained two buried gasoline storage tanks in close proximity to a potable water well. The tanks and well were removed.

SUSPECTED CONTAMINANTS: Gasoline.

PSC 20

Solid Waste Incinerator

NFA

DESCRIPTION: Building 952.

HISTORY: The wastes resulting from incineration were taken to the Clay County Landfill. There is no evidence of hazardous wastes being spilled or disposed at this PSC.

SUSPECTED CONTAMINANTS: None.

PSC 21

Golf Course (Casa Linda Lake)

NFA

DESCRIPTION: Casa Linda Lake.

HISTORY: The pesticide Dasanit was occasionally applied to the golf course greens to control mole crickets. A fish kill, May 6, 1979, was attributed to pesticide runoff. This was an isolated incident.

SUSPECTED CONTAMINANTS: The pesticide Dasanit.

PSC 22

Fort Dix

NFA

DESCRIPTION: Fort Dix

HISTORY: Area used for small arms ammunition disposal for the target or skeet ranges. There was no evidence of hazardous wastes at this site.

SUSPECTED CONTAMINANTS: Small arms ammunition.

RI/FS	-	Remedial Investigation/Feasibility Study
NFA	-	No Further Action
SS	-	Site Screening

PSC 33 Base Service Station Petroleum Control Agreement

DESCRIPTION: Building 429.
HISTORY: Gasoline leakage of approximately 2,000 gallons occurred in June 1982. A contamination assessment is currently underway.
SUSPECTED CONTAMINANTS: Gasoline.

PSC 34 Old Transformer Storage Building NFA

DESCRIPTION: Building 525.
HISTORY: Building 525 was formerly used to store transformers. The building was demolished and a new building was built on this PSC in 1978. Hazardous materials stored in the building reportedly were moved to PSC No. 27.
SUSPECTED CONTAMINANTS: Hazardous materials.

PSC 35 Temporary PCB Storage Area NFA

DESCRIPTION: Building 480.
HISTORY: The building was used for temporary storage of PCB oil in July of 1981. In 1980, asbestos pipe insulation from a building was removed and stored in Building 480. A contractor removed the material and decontaminated the building.
SUSPECTED CONTAMINANTS: PCB oil and asbestos.

PSC 36 Dewey Park SS

DESCRIPTION: Dewey Park.
HISTORY: Area was a Navy family housing area until mid-1970s.
SUSPECTED CONTAMINANTS: Construction debris and asbestos materials from fire-damaged buildings.

RI/FS	-	Remedial Investigation/Feasibility Study
NFA	-	No Further Action
SS	-	Site Screening

PSC 26

Old Main Registered Disposal Area

RI/FS

DESCRIPTION: Old Main Registered Disposal Area.

HISTORY: Before 1940, the U.S. Army utilized the PSC for a disposal site. From 1940 to 1970, the Navy utilized the PSC as a disposal area for solid wastes, construction and demolition debris, spent solvents and oil. The Navy burned the wastes and bulldozed the remains into trenches and pits and covered them. Air pollution control requirements halted burning and the solid wastes were then hauled offsite. The area was officially closed January 15, 1979. An interim remedial action in 1983 removed most of the oils.

SUSPECTED CONTAMINANTS: Spent solvents and oils, construction and demolition debris and solid wastes.

PSC 27

Ex-PCB Storage Area

RI/FS

DESCRIPTION: Approximately 100 x 100 feet.

HISTORY: The area was outdoor storage for the transformers which were vandalized in 1978, resulting in the spillage of transformer fluids on the ground. The transformers and contaminated soil were removed and disposed offsite.

SUSPECTED CONTAMINANTS: PCBs.

PSC 28

Ex-Fire Fighting Training Area

SS

DESCRIPTION: South end of station near the patrol road turnaround.

HISTORY: Approximately five to 10 gallons a day of spent oil was placed in the pit and burned from 1946 to 1952.

SUSPECTED CONTAMINANTS: Spent oil

RI/FS	-	Remedial Investigation/Feasibility Study
NFA	-	No Further Action
SS	-	Site Screening

PSC 40

Industrial Wastewater Treatment Plant
Discharge Area

NFA

DESCRIPTION: Cove east of runway 27.

HISTORY: Prior to 1972, a wastewater treatment plant was located near the main runway. Primary wastewater treatment included settling for removal of solids and skimming for removal of oils and solvents. Secondary treatment was provided by trickling filter units. Effluent was discharged to the river, resulting in a build-up of sediments in the area. The plant was removed from service in 1972 and the waste stream was diverted to the west side plant.

SUSPECTED CONTAMINANTS: Effluent and sediments.

PSC 41

Domestic Waste Sludge Drying Beds

RI/FS

DESCRIPTION: Domestic sludge drying beds.

HISTORY: An average of 90 gallons per day of sludge with heavy metals was dewatered in the drying beds until 1988. In 1991, the waste was removed.

SUSPECTED CONTAMINANTS: Hazardous wastes including heavy metals.

PSC 42

Polishing Pond for the Wastewater
Treatment Plant Effluent

RI/FS

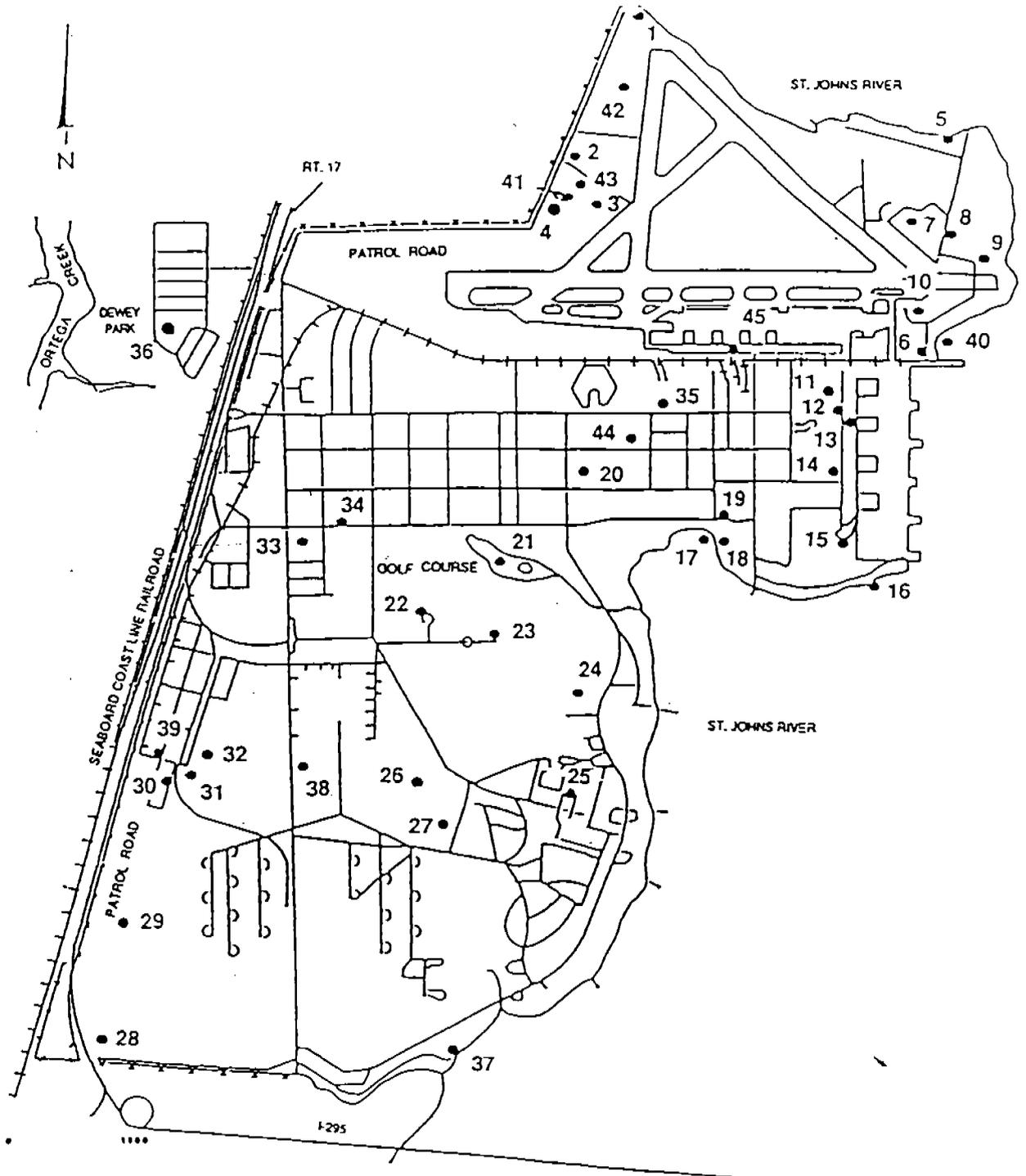
DESCRIPTION: Polishing pond.

HISTORY: The Pond received 2.3 million gallons per day of treated effluent from the wastewater treatment plant for final clarification before chlorination and discharge to the St. Johns River until 1988.

SUSPECTED CONTAMINANTS:

RI/FS	-	Remedial Investigation/Feasibility Study
NFA	-	No Further Action
SS	-	Site Screening

PSC Locations



Site 46, Reutilization and Marketing Office area (DRMO). This site is located in the southwest corner of the Station on the west side of State Road 17. a security fence is on the site perimeter. A stormwater drainage ditch is on the western, southern and eastern perimeter of the site. DRMO stored used electrical transformers and battery cases on the southern and western portions of the site, respectively. Various hazardous materials were stored on the western portion of the site. No spills from these items has been identified.

Site 47, Pesticide Shops, Building 536. This site has been used for the storage of pesticides on the Station since the early 1940's. Past practices included disposal of the pesticides in the surrounding soil.

Site 48, Naval Exchange Laundry/Dry Cleaners, Building 106. The laundry/dry cleaners has been operating in this building since the early 1940's. Solvents used in the laundry/dry cleaning process were recently found in the groundwater around this site. Past practices included disposal of the solvents in the surrounding soil and in building drainage lines.

Site 49 Commissary Warehouse Battery Changing Station, Bldg 170

This site is located in a 12 ft by 24 ft room located outside the north end of the Commissary Warehouse Building 170. Battery acid and oil spills had been steam washed to the surrounding soil since the mid-1970's. Lead was recently found in soil samples taken from the site.