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NAF
RFA

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ATKEARNEY

Mr. Ben R. Singh
Regional Project Officer
U.S. Environmental Protection Agency
Region II
26 Federal Plaza
New York, NY 10278

Reference: EPA Contract No. 68-01-7038; Work Assignment No.
R02-01-47; Naval Ammunition Facility; Vieques Island, Puerto
Rico. EPA ID No. PRD980536189. Final Phase II RCRA
Facility Assessment Report

Dear Mr. Singh:

Enclosed is the final Phase II RCRA Facility Assessment (RFA) report for the Naval Ammunition facility on Vieques Island, Puerto Rico. The RFA resulted in the identification of 15 solid waste management units (SWMUs) and 4 areas of concern (AOCs).

The Naval Ammunition facility is located on the western end of Vieques Island, off the coast of Puerto Rico. The facility is managed by the U.S. Naval Station Roosevelt Roads in Ceiba, Puerto Rico and its primary function is the storage and transfer of munitions supplied to the U.S. Atlantic Fleet. The facility maintains magazines for storage of these munitions and the only other operations conducted at the facility include maintenance of equipment used in storage and transfer of the munitions. Although the facility occupies approximately 8,000 acres of land, most of this area is undeveloped and, in fact, is leased to local landowners for cattle grazing. Wastes generated by the facility include aged and inoperative munitions, waste lubricating and crankcase oil, paints, and solvents.

Based on a review of files from EPA Region II and the Puerto Rico Board of Environmental Quality, and observations made during the VSI, the potential for release and suggested further actions for the SWMUs and AOCs have been developed. The primary units of concern include 4 inactive, unlined units including the Inactive Waste Explosive Open Burn/Detonation Range (SWMU 4), the IRFNA/MAF-4 Disposal Site (SWMU 5); the Mangrove Disposal Site (SWMU 6), and the Quebrada Disposal Site (SWMU 7). The unlined condition of the units and the historical data available concerning the wastes disposed in the units indicate a potential for release to the environment. Other units of concern include the Waste Paint and Solvent Disposal Ground (SWMU 10), where waste paint and solvents have been poured on bare ground, and the well and spring (AOC A) downgradient of the IRFNA/MAF-4 Disposal Site (SWMU 4).

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An investigation, which entails soil boring, surface water, and sediment sampling and analysis, has been suggested at four units. These include:

4. Inactive Waste Explosive Open Burn/Detonation Range
5. IRFNA/MAF-4 Disposal Site
6. Mangrove Disposal Site
7. Quebrada Disposal Site

The investigations are suggested since the units are unlined, wastes were disposed of on bare soil, and, based on available historical data, hazardous wastes or hazardous constituents may have been disposed in the units. Additional activities (e.g., additional sampling or groundwater investigation) may be warranted based upon the outcome of these investigations.

In addition, soil sampling has been suggested at the following units and area of concern based upon historical information and/or observations made during the VSI:

10. Waste Paint and Solvents Disposal Ground
14. Wash Rack
- C. Drainage Ditch in the Vicinity of the Transportation Shop

An additional unit of concern is the Waste Transportation Vehicle (SWMU 15) which reportedly contained drums of waste napalm. The vehicle was said to have been parked at the facility for at least 4 months and the final disposition of the waste had not been determined at the time of the VSI.

During the VSI the facility representatives stated that limited sampling had been performed at several of the units as part of the Confirmation Study. However, because the results are not kept at the Naval Ammunition facility (the data is handled through Washington) and because no Confirmation Study report has been prepared at this time, this information could not be provided at the time of the VSI or directly by the facility representatives. Therefore, this information was not available for the purposes of the report. Consequently, the further actions for these units indicate that any sampling data should be provided by the Navy.