

N00164.AR.002475
NSA CRANE
5090.3a

LETTER AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT COMMENTS
ON MRP SITE INVESTIGATION REPORT NSA CRANE IN
9/9/2010
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Rec'd 9/13/10 DGA 162
Tom's Copy



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

September 9, 2010

C. D. Freeman
Environmental Protection Manager
Department of the Navy, Crane Division
Naval Surface Warfare Center
300 HWY 361
Crane, Indiana 47522-5000

Re: MRP Site Investigation Report
NSWC Crane
Crane, Indiana
IN 5170023498

Dear Ms. Freeman:

The Indiana Department of Environmental Management (IDEM) has reviewed the MRP Site Investigation Report dated August 2010 (VFC# 57920353) and has the following comments.

AOC 1: B-143 Drop Test Area

This area was used for fuse testing. The primary explosive was lead azide. Eighteen samples were collected and analyzed for lead in the 0.06 acre area. All but one sample had concentrations within the established naturally occurring background for Crane. The last sample had a concentration of 164 ppm, which is less than half of a residential direct exposure standard. No further action is required at this site.

AOC 2: Pyro Area Outside Test Burn Pads

Soil in this area was tested for perchlorate, explosives, and dyes.

Perchlorate: Twelve samples were analyzed for perchlorate. The highest detected concentration was 5.5 ppb, which is well below a residential default target developed by the IDEM RISC group for another site.

Explosives: Twelve samples were analyzed. All had detections of explosive constituents, but all detections were well below the lower of IDEM or EPA risk based residential exposure criteria.

Dyes: Twelve samples were analyzed for dyes. Solvent Green 3 was detected at significant concentrations in the sediment of both pits, and in one soil sample, at a concentration above the risk based action level developed by the EPA. The IDEM agrees that with the removal of the pits the single soil sample detection would not represent a meaningful concern.

UXO 6: Test Pads Behind B-198

MFA

There were no detections of dyes in the soil samples. There was one detection out of 13 samples for nitrobenzene at a concentration that is above a residential default but well below an industrial default. The other 12 samples were non-detect. No further action is required at this site.

AOC 4: Lake Oberlin

There were no significant detections of any constituents. This site was chosen for sampling as the water test area most likely to have accumulated constituents of concern. The complete lack of impact at this site makes it unnecessary to sample at Conservation Dam No. 2845 (UXO 1), the Dugger Lake Facility (AOC 3), the Lake Greenwood Pyro Test Area New Dam and the Officer's Club Test Area (UXO 3).

AOC 6: West Gate Small Arms Range

Data summary:

	MEAN	Std Dev	Max	# Samples
TRAP AND SKEET RANGE	35	29	153	78
PISTOL RANGE	131	180	850	29
300-YARD FIRING LINE	46	18	74	10
200-YARD FIRING LINE	171	144	483	10
100-YARD FIRING LINE	44	25	89	10
MAIN TARGET AREA	40	22	69	7
MAIN BULLET STOP	54	54	199	14

*Leak
NFA?*

Soil samples had isolated detections of lead above risk-based standards, but overall exposure is quite low for human health. Analysis of eco exposure is more complex, but after consultation with EPA Region V the IDEM concurs the species that live in this area would not be negatively impacted by the lead or other metals in the soil.

If you have any questions regarding this matter, please call Doug Griffin of my office at 317/233-2710.

Sincerely,



Victor P. Windle, Chief
Hazardous Waste Permit Section
Permits Branch
Office of Land Quality

cc: 1C3b file