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NAS WHITING FIELD
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LETTER REGARDING EVALUATION OF SUBSURFACE SOILS AT SITE 2 REVISION 1 NAS
WHITING FIELD FL
8/23/1999
HARDING LAWSON ASSOCIATES

Harding Lawson Associates

09.01.02.0009

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August 23, 1999

2534-2030

Florida Department of Environmental Protection Agency
Attention: Mr. Jim Cason
2600 Blairstone Road
Tallahassee, Florida 32301

**SUBJECT: Evaluation of Subsurface Soils (Revision 1.0)
Site 2, Northwest Open Disposal Area
NAS Whiting Field, Milton, Florida
Contract No. N62467-89D-0317/116**

Dear Mr. Cason:

Based on your review comments for the Site 2, Northwest Open Disposal Area, Record of Decision (ROD), Harding Lawson Associates (HLA) conducted an evaluation of the effects of residential exposure to the subsurface soils at Site 2, NAS Whiting Field, Milton, Florida.

Table 1 presents the subsurface soil analytical results and compares contaminant concentrations to the Florida Soil Cleanup Target Levels (SCTLs). The data indicates Arsenic is the only contaminant exceeding the Florida SCTL for residential exposure. The Site 2 ROD, addresses exceedance of arsenic concentrations by recommending Land Use Controls.

Based on a comparison of Site 2 subsurface soil contaminant concentrations to the Facility wide subsurface soil background concentrations presented in Table 1 and the Florida SCTLs presented in Table 2 of Chapter 62-777, FAC, the conclusions and recommendations presented in the Site 2 RI report are still valid and subsurface soils do not pose a risk to human health.

If you have any questions or concerns about this report, please call us at (850) 656-1293.

Sincerely,

Harding Lawson Associates


Rao Angara

Task Order Manager



Eric Blomberg, P.G.

Senior Scientist

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Table 1
Summary of Analytical Results for Subsurface Soils

Site 2, Northwest Open Disposal Area
NAS Whiting Field
Milton, Florida

Locator	Range of Detections	Background (2 x Mean of Facilitywide Subsurface Soil)	USEPA Region III RBCs (Industrial)	Florida Soil Cleanup Target Levels ¹ (Residential/Industrial/Leaching)
<u>SVOCs (ug/kg)</u>				
2-Methylnaphthalene	810 - 940	NA	4,100,000	80,000/560,000/6,100
Phenanthrene	520	NA	---	2,200,000/30,000,000/250,000
<u>Pesticides & PCBs (ug/kg)</u>				
Aroclor-1260	320	NA	2,900	---/---
Dieldrin	4	NA	360	70/300/4
Alpha-Chlordane	3.3	NA	16,000	3,00/12,000/9,600
Gamma-chlordane	3.1	NA	16,000	3,100/12,000/9,600
<u>Inorganic Analytes (mg/kg)</u>				
Aluminum	2,380 - 3,760	27,834	2,000,000	72,000/**/SPLP
Arsenic	0.37 - 0.54	5.8	3.8	0.8/4.62 ² /29
Barium	3.7 to 7.4	15.8	140,000	110/87,000/1,600
Cadmium	0.17 to 0.24	0.92	1,000	120/800/63
Calcium	687 to 1,820	444	---	---/---
Chromium	3.0 to 3.6	22.8	6,100	210/420/38
Copper	1.6 to 1.8	8.8	82,000	110/76,000/SPLP
Iron	1750 to 2170	18,100	61,000	23,000/480,000/SPLP
Lead	2.6 to 4.9	8.4	400	400/920/SPLP
Magnesium	78.8 to 261	272	---	---/---
Manganese	10.8 to 31.6	42.6	41,000	1,600/22,000/SPLP
Potassium	104 to 138	181	---	---/---
Sodium	137 to 154	ND	---	---/---
Vanadium	6.5 to 7	45	14,000	15/7,400/980
Zinc	4.4 to 5	15.6	610,000	23,000/560,000/6,000
Notes: ug/kg - micrograms per kilogram. mg/kg = milligram per kilogram. NA = Not Applicable. ** = Contaminant not a health concern for this exposure ¹ = Soil Cleanup Target Levels for Chapter 62-777, F.A.C (May 1999) ² = FDEP approved site-specific cleanup goal				