

# EcoSystems Environmental, Inc.

## Environmental Consulting Services

February 24, 2000

Mr. Ed Collins  
NGVC Retiree Club  
Mail Stop 76-18  
P.O. Box 655907  
Dallas, Texas 75265-5907

**Re: Initial Exposure Assessment  
Air Monitoring Results  
A-5 Paint Sanding**

Dear Mr. Collins:

On Thursday, February 10, 2000, EcoSystems Environmental, Inc. (ESEI) performed personal and ambient air sampling during an Initial Exposure Assessment (IEA) at the Northrop Grumman facility in Grand Prairie, Texas. The IEA consisted of using DCM Clean-Air Products pneumatic-powered rotating orbital sanders P/N 17205 H equipped with High Efficiency Particulate Air (HEPA) filtration pneumatic 5 gallon vacuum P/N 50125. The IEA was performed on two wing panels and conducted inside a filtration booth (with the filtration system not operating).

Two personal samples were collected for time weighted average (TWA), Sample Nos. 1 and 3. One personal sample was collected for a short-term exposure limit (STEP), Sample No. 4. One area air sample was collected, as well as a bulk sample of the paint being sanded. All air samples were analyzed for total and respirable metals (i.e., lead, cadmium, chromium, and barium). The paint chip sample was analyzed for the same total metals. The results of all sample analysis are summarized in the tables below and detailed in the attached laboratory reports.

All air sample results were recorded below the detection levels, which are the levels shown on Table 2 for the respective metal.

TABLE 1 - PAINT CHIP SAMPLE ANALYSIS

	Cadmium *	Chromium *	Lead *	Barium *
Paint Chip	10	1,630	2,040	1,000

\* Paint chip concentrations are recorded in milligrams per kilogram (mg/kg)

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TABLE 2 - AIR MONITORING SAMPLE ANALYSIS

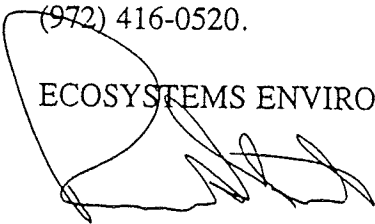
	Cadmium *	Chromium *	Lead *	Barium *
BLANK	< 0.20	< 0.90	< 0.90	< 0.50
T-1	< 0.0005	< 0.002	< 0.002	< 0.0001
R-1	< 0.0005	< 0.002	< 0.002	< 0.0001
T-2	< 0.0005	< 0.002	< 0.002	< 0.0001
R-2	< 0.0005	< 0.002	< 0.002	< 0.0001
T-3	< 0.0004	< 0.002	< 0.002	< 0.0001
R-3	< 0.0004	< 0.002	< 0.002	< 0.0001
T-4	< 0.004	< 0.02	< 0.02	< 0.0009
R-4	< 0.004	< 0.02	< 0.02	< 0.0009

\* Air sample concentrations are recorded in milligrams per kilogram (mg/kg) except the blank, which is recorded in micrograms.

T-1/R-1: Joe Millsap 463-07-1201  
T-2/R-2: Earl Hastings 439-48-8533  
T-3/R-3: Ambient Air Sample  
T-4/R-4: Al Miller 452-52-4580

If you have questions or need additional information, do not hesitate to contact me at (972) 416-0520.

ECOSYSTEMS ENVIRONMENTAL, INC.



Russ A. Gout, REM  
Operations Manager