



**DEPARTMENT OF THE NAVY**

ENGINEERING FIELD ACTIVITY, NORTHEAST

NAVAL FACILITIES ENGINEERING COMMAND

10 INDUSTRIAL HIGHWAY

MAIL STOP, #82

LESTER, PA 19113-2090

IN REPLY REFER TO

5090

Code EV21/JLC

**03 MAY 2002**

B070

William Gilday  
New York State Department of Health  
Flanigan Square  
547 River Street, Room 300  
Troy, New York 12180

Dear Bill:

Subj: Draft Workplan for Air Monitoring at Plant 5; Naval Weapons  
Industrial Reserve Plant (NWIRP) Bethpage, Nassau County, New  
York; Site No. 1-30-003B

The Navy is forwarding the subject workplan for your review. Submission of this draft workplan is in accordance with your request to Mr. Larry Leskovian of the Northrop Grumman Corporation and is being conducted to support the upcoming transfer of this building to Nassau County, New York. As such, the air sampling effort is scheduled to begin during the week of May 13, 2002. Therefore, it is requested that any comments that you may have be forwarded via email, as soon as possible.

A similar effort was previously conducted by the Navy for the Plant 3 facility located on the Navy's 105-acre Parcel at NWIRP Bethpage in February 2001.

If you have any questions or would like to discuss the enclosed workplan further, please give me a call at (610) 595-0567, extension 163.

Sincerely,

JAMES L. COLTER  
Remedial Project Manager  
By direction of the  
Commanding Officer

Enclosure: (1) Draft Workplan for Plant 5 Air Sampling

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Northrop Grumman, Larry Leskovian  
Northrop Grumman, John Cofman

## **MODIFICATIONS AND CLARIFICATIONS TO PLANT 5 FACILITY AIR SAMPLING PROGRAM WORK PLAN**

prepared for Northrop Grumman Corporation  
by Dvirka and Bartilucci Consulting Engineers

Dvirka and Bartilucci (D&B) was originally tasked by Northrop Grumman to prepare and then implement a work plan for collecting indoor air samples within Navy Plant 5. The air sampling activities would be similar to those conducted by the U.S. Navy/Tetra Tech NUS, Inc for Plant 3 in 2001. The request for air sampling within Plant 5 came from the New York State Department of Health to determine if adverse air impacts exist due to volatile organic compounds associated with past plant operations and/or contaminated groundwater flowing beneath the building.

The air samples will be collected using summa canisters and be analyzed for volatile organic compounds using Method TO-14A. The D&B work plan dated April 2002, (attached) identified twelve locations within the Plant 5 building where air sample collection is recommended. As noted in the work plan, the majority of the interior air sample locations are biased to areas where historic operations included the storage and/or use of solvents. Several unbiased sample locations were also selected. The D&B work plan also recommended the collection of two air samples outside the Plant 5 building to determine ambient air quality. The exterior air samples would be collected north and south of the plant.

After the D&B work plan was prepared, Northrop Grumman requested, and the Navy agreed to, conduct the air testing using the D&B work plan. As a result, Tetra Tech NUS, Inc. has been tasked by the U.S. Navy to conduct this air sampling. Prior to conducting this testing, TtNUS reviewed the work plan and conducted a Plant 5 walk through with Northrop Grumman and Nassau County personnel on May 1, 2002. Based on this information, TtNUS plans to implement the D&B Work Plan with the following modifications/clarifications.

- TtNUS will collect two additional air samples within Plant 5 (total of 14 interior air samples). One additional sample will be collected in the southeast corner of Plant 5 (P5-15) to address an area currently used by the Navy to store several hundred pounds of new floor block, adhesive, and sealant material. During the plant walkthrough, a noticeable organic odor associated with these materials was observed in this room. The second additional air sample will be collected in a hanger located in the northwest corner of Plant 5 (P5-16). This hanger represents a relatively large area that may not be addressed by other planned air samples.
- The two exterior samples will be located outside the building (P5-13 and P5-14); however, the locations may be shifted around Plant 5 just prior to the sampling to reflect upwind and downwind locations, respectively. The sample locations may also be adjusted to avoid obvious downdrafts associated with buildings.
- The on/off cycling of the ventilation system in the D&B work plan prior to the sampling was unclear. The Navy will have the ventilation system operate on a normal automatic cycle for a minimum of 48 hours prior to the testing. The operation of the ventilation system in other modes was considered (e.g. off), but was determined not to be practical. Maintenance operations in Plant 5 that involves fuels and solvents will not be conducted for 7 days prior to the test. In addition, doors (personnel and hanger) and windows will be closed during this period. Note that personnel doors will still be periodically used for normal ingress and egress for other common maintenance activities, inspection, fire watch, and air sampling activities during this period.