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## DEPARTMENT OF THE NAVY

NORTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
10 INDUSTRIAL HIGHWAY  
MAIL STOP, #82  
LESTER, PA 19113-2090

5090 IN REPLY REFER TO  
Ser 2532/1823/dec

June 16, 1995

### Via Facsimile Only

Ms. Kymberlee Keckler  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region I  
JFK Federal Building  
Boston, MA 02203-2211

Mr. Paul Kulpa  
State of Rhode Island and Providence Plantations  
Department of Environmental Management  
Division of Site Remediation  
291 Promenade Street  
Providence, RI 02908-5767

Re: FIELD SAMPLING PLAN FOR THE SANDBLAST GRIT REMOVAL AT  
DEREKTOR SHIPYARD AT NETC NEWPORT

Dear Ms. Keckler and Mr. Kulpa:

In accordance with the supplemental environmental project (SEP) scope of work for the removal of sand blast grit at Derektor Shipyard, the Navy is executing the first phase of the project which consists of preparation of a field sampling plan to identify proposed sampling/test pit locations, review of the plan with your agencies and then having the Navy's Remedial Action Contractor (OHM Remediation) conduct the necessary sampling.

Attached is the Navy's proposed field sampling plan and location map for the twenty samples which will be collected and used to characterize the sand blast grit material, determine spatial distribution and delineate zones slated for removal. Upon completion of the sampling and analysis, results will be provided in the removal action work plan.

To ensure the agreed upon schedule in the SEP scope of work is maintained, the Navy is requesting review of the attached field sampling plan be completed by June 21, 1995. The Navy will then schedule a conference call for either June 22 or 23, 1995 for discussion of any regulatory comments and then sampling to be completed the week of June 26, 1995.

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The Navy welcomes the earliest opportunity to discuss the attached field sampling plan and I will be contacting you June 20, 1995 to set-up a time.

If there are any other questions, please do not hesitate to call. I can be reached at (610) 595-0567 extension 147.

Sincerely,

*Deborah Carlson*

D. E. CARLSON  
Remedial Project Manager  
By direction of the Commanding Officer

Copy to:  
NETC Newport, (B. Wheeler)  
NORTHDIV (C. Davis)  
OHM Remediation (R. Anderson)

FIELD SAMPLING PROGRAM  
FOR THE  
SAND BLAST GRIT REMOVAL AT DERECKTOR SHIPYARD  
NETC NEWPORT

**OBJECTIVES:**

- A. Determine the spatial distribution of sand blast grit which resulted from past operations at the Derecktor Shipyard in areas adjacent to Building 42. This information will be used to provide an accurate volume estimate for the removal/disposal contractor.
- B. Characterize the sand blast grit and classify it for the purposes of disposal (eg. non regulated, RIDEM regulated, Federally regulated under RCRA/TSCA).
- C. Delineate each of the zones slated for removal (based on the disposal classification) prior to excavation. This information will be used to segregate materials during excavation in a regulatorily correct and cost effective manner.

**ANALYTICAL TESTING:**

A total of twenty samples will be collected in the approximate configuration indicated on the enclosed sampling plan. Each of the samples will be tested for the following:

- |              |               |
|--------------|---------------|
| - TPH        | - TCLP VOC's  |
| - PCB's      | - TCLP SVOC's |
| - Total Lead | - TCLP Metals |

Analytical testing methods, decontamination procedures, and field QA/QC protocols are described in the SAMPLING AND ANALYSIS PLAN FOR REMEDIAL ACTION AT MCALLISTER POINT LANDFILL - NETC, dated November 7, 1994.

**SAMPLING PLAN:**

**GENERAL:** Three areas adjacent to Building 42 will be sampled as indicated on the map. These areas are identified as A-1, A-2 and A-3. The depth of sand blast grit in each area will be visually determined by test pitting via a backhoe (Areas A2 and A3) or hand auger (Area A-1) until clean soils/fill are encountered. If the backhoe proves ineffective in certain areas (due to the lack of cohesiveness of the sand blast grit) then other methods shall be used. These methods may include augering, conventional coring, and/or vibrating coring. Visual inspection will be the primary method for delineating the

grit since the sand blast grit is markedly different in color and texture as compared with surrounding fill and indigenous native soils.

Samples from test pits will be taken from the middle of the backhoe bucket using a stainless steel spatula. Samples collected for analysis will be the most contaminated based on visual observation, olfactory information, or PID levels. Samples taken for VOC's will be done first so as to minimize VOC loss. The remainder of the sample will be homogenized in a stainless steel bowl and placed in sample jars as required for chemical analysis. Samples from two locations which require compositing (ie. Areas A-1 & A-3) will be placed in a stainless steel bowl and homogenized as described above with the exception that VOC samples will be placed in separate jars immediately (prior to placement in the stainless steelbowl) and equal portions combined at the laboratory just prior to chemical analysis.

All sample locations will be marked out with numbered stakes and approved by the NETC Environmental Engineer (Brad Wheeler) and NORTHERN DIVISION representative prior to the initiation of sampling.

After each test pit is completed, it will be refilled with materials removed from the excavation.

#### **AREA DESCRIPTIONS:**

AREA A-1: This area is believed to be approx. 115 feet wide and 170 feet long. Since the grit appears to be a very shallow surficial deposit (two feet maximum), hand augering should prove adequate for vertical extent of grit. Four samples will be collected from this area for analysis. Each of the four samples will be made by compositing two samples as indicated on the map.

AREA A-2: This area is also known as the "berm" and is approx. 410 feet long, 40 to 50 feet wide, and 5 to 15 feet high. Test pits in this area will be approx. 4 to 8 feet long and as deep as necessary to reach natural soils/ clean fill. If testing pitting proves to be ineffective, other methods as describe above shall be employed. No compositing will be conducted in this area since adequate coverage has been achieved with the 10 samples.

AREA A-3: This area is approximately 410 feet long, 40 feet wide, and 4 feet deep. Six samples will be collected for analysis. Each of the six samples will consist of two samples which have been composited from locations as indicated on the map.

**DELIVERABLES:**

After the sampling and analysis information has been completed, OHM shall submit a report as part of the removal action work plan which includes a summary of sampling activities, chemical analysis reports, a map delineating boundaries indicating different waste disposal classifications and volumes of the sand blast grit, a list of TSDFs which can accept or process any of the waste which is regulated, costs associated with disposal to the TSDFs.