



DEPARTMENT OF THE NAVY

NAVAL WEAPONS STATION EARLE  
201 HWY 34 SOUTH  
COLTS NECK, NEW JERSEY 07722-5001

N60478.AR.000604  
NWS EARLE  
5090.3a

IN REPLY REFER TO

5090  
Ser 043/007  
12 Feb 01

Mr. Brian Leary, Environmental Engineer  
Bureau of Air Quality Engineering  
New Jersey Department of Environmental Protection  
CN 027  
Trenton, New Jersey 08625

Re: SITE 26 AIR SPARGING/SOIL VAPOR EXTRACTION SYSTEM AIR  
POLLUTION CONTROL (APC) PERMIT APPLICATION, TRACKING  
NUMBERS: BOP 00-0004, PLANT IDENTIFICATION NUMBER: 21138

Dear Mr. Leary:

In response to your letter of January 16, 2001 the following technical information is provided:

a. Please provide the distance below ground at which the air will be injected along with the depth of clean soil to the point of contamination.

Response: The air shall be injected 20 to 23 feet below grade. The shallow groundwater aquifer is contaminated from a depth of approximately 8 feet below grade to 23-feet below grade (confining clay unit).

b. Please provide the maximum flow rate for the Soil Vapor Extraction blower and the Air Sparging compressor. Also please specify the minimum soil vapor extraction to air sparging ratio and how the flow rates will be verified during normal operations.

Response: The maximum flow rate for each air sparging blower is approximately 330 cubic feet per minute (CFM). The maximum flow rate for each soil vapor extraction blower is 1,080 CFM. Only one-half of the capacity of the entire system is currently being employed since equipment "flooding" conditions have been experienced under maximum flow/extraction operation. The flow rates are verified with pitot tubes, pressure differential transmitters and gauges.

c. Please provide a map showing the locations of the sparging and monitoring wells.

Response: A drawing depicting the locations of the air sparging wells, soil vapor extraction, and monitoring wells is enclosed.

A diskette and certification form was forwarded to the Bureau of New Source Review on August 15, 2000. Please note that the Comprehensive Environmental Cleanup and Liability Act (CERCLA, 42 U.S.C. 9621 Sec. 121(e)) exempts any response action conducted entirely on site from having to obtain a Federal, State or local permit. Remediation is being conducted under CERCLA at this site and the previous information submitted qualifies as meeting the substantive requirements of a permit application.

Mr. Robert Marcolina of the Bureau of Case Management has been advised of the operational status of this equipment. The soil vapor extraction/air sparging remediation system was completely installed on November 21, 2000. Equipment prove out operations were conducted during intermittent operations during the period November 21 through December 28, 2000 and, since December 28, 2000, the system has operated for approximately six hours per day.

Should you require any further information, please contact Mr. Gregory Goepfert, Environmental Engineer at (732) 866-2515.

Sincerely,



C. B. SHAW  
Captain, U.S. Navy  
Commanding Officer

Encl.: Location of Sparging, Extraction and Monitoring Wells at Site 26

cc: Mr. Robert Marcolina, NJDEP, Bureau of Case Management (w/o encl.)  
Ms. Jessica Mollin, U.S. EPA Region II, Remedial Project Manager (w/o encl.)  
Mr. John Kolicus, NORTHNAVFACENGCOM, Code 18 (w/o encl.)  
Mr. Michael Heffron, Foster Wheeler Environmental Corporation (w/o encl.)