



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

December 9, 2005

JOHN ELIAS BALDACCI

GOVERNOR

Mr. & Mrs. Charles Ferguson

Brunswick, Maine

DAWN R. GALLAGHER

COMMISSIONER

Re: Mere Brook, Pore Water Sampling Results

Dear Mr. & Mrs. Ferguson,

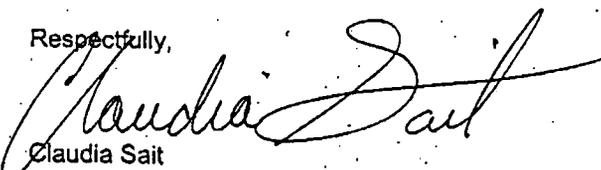
Thank you for allowing us to perform pore water sampling for volatile organic compounds (VOCs) on your property. Pore water sampling consists of inserting a thin stainless steel rod into the stream bank, stream bed or floodplain, and pumping out the water from the sediment before it reaches the surface and the VOCs, if present, evaporate. The pore water sampling was performed to determine whether VOC's and 1,4-dioxane originating from the Eastern Plume were present in the study area.

All water samples for all the sampling points were sent to the EPA's on site mobile laboratory. A select group of water samples was sent to a fixed laboratory for a analysis of a broader range of VOC's and 1,4-Dioxane. (1,4-Dioxane is a solvent itself and is also used as a solvent stabilizer. Typically 1,1,1-trichloroethane (TCA) contains 2-3%, and trichloroethene (TCE) contains 1%.) The laboratory results indicate that low level VOCs (such as chloroethane and 1,1 dichloroethane, which are breakdown products from TCA and TCE) and 1,4-dioxane were in the floodplain and/or stream on your property. Based on our knowledge of the Eastern Plume and the geology of the area, the water table generally follows the shape of the land surface. Therefore, we consider the groundwater to be flowing away from the base and your property and toward the stream since the stream is the lowest point in the area. For this reason MEDEP does not believe the discovery of VOCs and 1,4-dioxane in groundwater represents any risk to your drinking water well.

You will notice on the attached figures that the red line is the approximate location of the Base's fence. It is unclear whether this fence represents the property line or if it was installed in from the actual boundary line. The Navy will be looking into this. Also this study does not represent a comprehensive investigation of the area. The information collected during these sampling events has been provided to the Navy and they are presently developing a plan to conduct a more extensive investigation.

Thank you for allowing us access to your property. If you have any questions or comments please feel free to contact me at (207) 287-7713 or email me at claudia.b.sait@maine.gov.

Respectfully,


Claudia Sait
Project Manager-Federal Facilities
Bureau of Remediation & Waste Management

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