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RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

WATER SUPPLY WELL SAMPLING

JANUARY 1998

Executive Summary:

Research & Analytical Laboratories, Inc. (RAL) was contracted by the Department of the Navy Facilities Engineering Command Contracts, Camp LeJeune, NC to sample & analyze eighty (80) water supply wells for Volatile Organic Chemicals using EPA Method 524.2. The sampling was performed on 12-13 January 1998. Four (4) water samples were collected at each location in forty (40) ml vials. These samples were preserved with Hydrochloric Acid (HCL) to pH <2 and placed on ice. Samples which contained chlorine were treated with Ascorbic Acid prior to acidification. The following information was also collected at each well at the time of sampling:

- 1) Well Identification Number
- 2) Number of samples taken
- 3) Date & Time of samples collected
- 4) Weather conditions during the sampling event
- 5) Pumping level of each well
- 6) pH of sample taken

All VOC analyses were below detection limit (BDL) with the following exceptions:

Well Number	Parameter	Results (ug/l)	Drinking Water Std (ug/l)	Ground Water Std (ug/l)
LCH4007	1,2-Dichloropropane	1.3	5.0	0.56
003	Trichlorofluoromethane	0.5	N/A	2,100
706	Benzene	6.1	5.0	1.0
698	Chloroform	2.6	N/A	0.19
699	Chloroform	1.8	N/A	0.19
616	1,2-Dichloropropane	0.5	5.0	0.56
628	Chloroform	0.7	N/A	0.18
BA190	Trichlorofluoromethane	0.5	N/A	2,100
GSR01*	Chloroform	27.6	N/A	0.19
	Bromodichloromethane	4.4	N/A	N/A
	Dibromochloromethane	0.9	N/A	N/A
TC700	Benzene	2.8	5.0	1.0

* = Chlorinated System

N/A = Unregulated Compound - No Limits Established

The 1,2-Dichloropropane detected in well LCH4007 exceeded the Groundwater Standards. The Chloroform detected in wells 698, 699, 628, and GSR01 exceeded the Groundwater Standards. The Benzene detected in wells 706 and TC700 exceeded the Groundwater Standards. Only the Benzene detected in well 706 exceeded the Drinking Water Standards.

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P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 910/896-2841