

**Lakeshore Company –PWSID – NJ1413001****Year 2004 Annual Water Quality Report**

**What's The Quality Of Your Water?** Lakeshore Company is pleased to share this water quality report with you. This report covers January through December 2004. The New Jersey Department of Environmental Protection requires all water suppliers to provide reports like this every year to each customer.

Lakeshore Company takes its water from 2 groundwater wells. Well # 1 is located adjacent to the Tennis Courts across from the Mt. Kemble Lake Association's Club House on Trails End. Well # 2 is located on Lake Trail East. The water from these wells is chlorinated and then distributed throughout the community. When the pumps run, water in excess of current demand is sent to three storage tanks located at the top of Alpine Drive. Water is drawn from the storage tanks when the pumps are off. The horizontal storage tank was repaired this past year.

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at [www.state.nj.us/dep/swap/](http://www.state.nj.us/dep/swap/) or by contacting the NJDEP, Bureau of Safe Drinking Water at 609-292-5550. The source water assessment performed on Lakeshore Company's well-water sources determined the following:

EPTDS ID	Source ID	Source Name	Pathogens	Nutrients	Pesticides	VOC's	Inorganics	Radionuclides	Radon	DBPS
			Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating
01	003	Well 1	H	H	L	L	M	M	H	M
02	005	Well 2	H	M	L	H	M	M	H	M

L= low M= Medium H = High

A public water system's susceptibility rating (L for low, M for medium or H for high) is a combination of two factors. H, M, and L ratings are based on the potential for a contaminant to be at or above 50% of the Drinking Water Standard or MCL (H), between 10 and 50% of the standard (M) and less than 10% of the standard (L).

**If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination.**

Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels.

NJDEP found the following **potential** contaminant sources within the source water assessment areas for your water: Pathogens, Nutrients, Volatile Organic Compounds, and Radon. Lakeshore Company tests regularly for Pathogens, Nutrients, Volatile Organic Compounds, and Radon, as mandated by the NJDEP. After reviewing the results, the water company will make an assessment of water quality to determine if any additional testing or treatment is necessary.

If you have questions regarding the source water assessment report or summary please contact the Bureau of Safe Drinking Water at [swap@dep.state.nj.us](mailto:swap@dep.state.nj.us) or 609-292-5550.

**Where Can I Get More Information?** For more information about Lakeshore Company's drinking water supply, please contact **Agra Environmental & Laboratory Services at 973-989-0010.**

### Results of Monitoring For Contaminants In Drinking Water

Contaminant	Units	MCL	MCLG	Level Detected	Range	Violation (Y/N)	Potential Source
Total Coliforms	Present Absent /100ml	0	0	See 'Range'	1 of 21 samples were positive	N	Leaking septic system, runoff from streams, broken water mains or water line work.
Copper	ppm	1.3 (Action Level)	1.3	0.27 (90 <sup>th</sup> percentile)	0 of 5 samples exceeded action limit	N	Corrosion of household plumbing.
Nitrate	ppm	10	10	2.12 (2 samples)	0.3 – 3.86	N	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits.
Barium	ppb	2000	278	183.6	NA	N	Natural Ore, Used in variety of products.
VOC's	ppb	Various	NA	0.38	NA	N	Leaking tanks, solvents etc.
Trihalomethanes	ppb	80	80	ND	NA	N	By-product of chlorination

**Other Substances:** Substances in the "Other Substances" chart are monitored in order to learn more about that substance and because these substances can affect the taste and odor of your water at certain levels. These are considered Secondary Contaminants with recommended limits.

Substance	Units	Average	Range	Recommended Upper Limit
Hardness	ppm	155	170-230	50 - 250
Total Dissolved Solids	ppm	254.5	NA	500
Magnesium	ppm	7.45	NA	NA
PH	SU	6.7	7.4-7.8	6.5 – 8.5
Sodium	ppm	11.25	NA	50
Sulfate	ppm	18.8	NA	250
Calcium	ppm	32.15	NA	NA

## Health Effects of Detected Contaminants

**Coliform Bacteria/E-Coli-** Coliform Bacteria are common in the environment and are generally not harmful. The presence of these bacteria in drinking water is usually the result of a problem with the treatment system or the pipes which distribute the water, and indicates that the water may be contaminated with germs that may cause disease.

**Barium:** Barium is a naturally occurring ore used in a variety of manufactured goods. The EPA has found that in some people, short exposure to Barium in exceedence of the MCL can cause gastrointestinal disturbances and muscle weakness. Long term exposure to barium at levels above the MCL may cause high blood pressure.

**Copper:** Copper is an essential nutrient, but some people who drink water that contains copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water that contains copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

**Nitrate:** Nitrate in drinking water a levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

**Special Considerations Regarding Children, Pregnant Women, Nursing Mothers, and Other Vulnerable Population** - Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can particularly at risk from infections. These people should seek advice from their health care providers. EPA/CDC guidelines on appropriate means to lesson the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)

**Definitions:** The following is a list of the most common definitions used in Annual Water Quality Reports. Not all of the definitions apply to your report:

**90<sup>th</sup> Percentile:** 90% of samples are equal to or less than the number in the chart.

**Action Level:** The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

**MCL or Maximum Contaminant Level:** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**MCLG or Maximum Contaminant Level Goal:** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**ppb or parts per billion:** Micrograms per liter (ug/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**ppm or parts per million:** Milligrams per liter (mg/L). One part per million corresponds to one minute in two years, or a single penny in \$10,000.

**NR:** Not regulated.

**NA:** Not applicable

**ND:** Not detectable at testing limits.

**SU:** Standard Units.

**EPA:** Environmental Protection Agency.



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