DeLand Country Club Estates Update

July 17, 2012
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Private Drinking Well Testing 2011

Sample collected from resident’s private well indicated that dieldrin level exceeded the Florida Health Advisory Level (HAL).

Additional sampling of private wells was conducted following the protocol from the Department of Health’s Well Surveillance Program Technical Guide.
Summary of 2011 Testing Results

287 wells sampled:
- 171 wells had no detection for dieldrin.
- 116 wells tested positive.
DeLand Country Club Estates Update

Dieldrin Sampling 287 Samples 171 No Detects 116 Positives

Legend
- Not Sampled
- City Water
- No Detects
- Declined Sampling
- Unoccupied House
- Vacant Lot
- Positive
Private Drinking Water Well Testing 2012

Resampled 160 private drinking water wells that were non-detect for dieldrin in 2011.

Summary of 2012 Testing Results

160 wells resampled:
  156 wells no detection for dieldrin.
  4 wells tested positive.
Health Implications

There is no conclusive evidence that dieldrin causes cancer in humans. Dieldrin has been shown to cause cancer in mice. The nervous system and liver can be affected by exposure to dieldrin. However, these effects would only be expected in much higher levels of exposure than found in this community.
Health Implications

As in the case of drinking water, exposure to pesticides in soil over a 70 year lifetime might result in health effects.

Because of typical hand-to-mouth behavior, the risk of incidental ingestion is greater for children. Hand washing is very important after playing in the yard, especially before eating.
Health Implications

Organochlorine pesticides
- Dieldrin
- Toxaphene
- DDT
- Chlordane

All have similar chemical properties. The same protective measures apply to all of these.
Protective Measures for Private Drinking Water Wells

If your private well is contaminated, connect to public water system.
If your private well had no contamination, have well periodically tested.
Protective Measures for Soil

To limit exposure to termiticide or pesticide previously used on property, avoid activities that bring chemicals to the surface such as digging. Normal activities in a grass-covered yard should pose very little risk of exposure.
For more information please visit

The Volusia County Health Department website
www.volusiahealth.com/dieldrin

DOH Safe gardening tips website
www.myfloridaeh.com/medicine/superfund