



# Your Health: Facts for Navy Families in Naples

## About: Chemicals and Microorganisms Analyzed

An important Public Health Evaluation is underway under the guidance of the Navy and Marine Corps Public Health Center. The Public Health Evaluation is designed to evaluate the potential short and long-term health risks associated with living in the Naples area as a result of inadequate trash collection, uncontrolled open burning of uncollected trash, and widespread dumping of waste, including chemical and other hazardous waste.

Launched in 2008, the Public Health Evaluation involves the collection of air, water, soil and soil gas samples from throughout the region to identify whether there are potential health risks.

For details and background information, visit the website listed at the bottom of this page.

### Chemicals and microorganisms analyzed in the Phase I Public Health Evaluation

Fourteen categories of chemicals/microorganisms were tested and analyzed in tap water, soil, soil gas and air samples during Phase I of the Naples Public Health Evaluation. The chemicals/microorganisms tested varies depending on whether a sample is from tap water, soil, soil gas or air. The complete list of chemicals and microorganisms is provided below.

#### Alkane Hydrocarbons

- Octane
- Pentadecane
- Tridecane
- Undecane

#### Anions

- Chloride
- Cyanide
- Fluoride
- Nitrate (measured as NO<sub>3</sub><sup>-</sup>)
- Nitrite (measured as NO<sub>2</sub><sup>-</sup>)
- Phosphate
- Sulfate

#### Dioxins/Furans

- Total Dioxin/Furans (2,3,7,8-TCDD TEQs)

#### Disinfectants

- Chlorine (as Cl<sub>2</sub>)

#### Disinfection Byproducts

- Total Trihalomethanes

#### Field Parameters

- Dissolved Oxygen
- Oxidation Reduction Potential
- Salinity
- Specific Conductance
- Temperature
- Total Dissolved Solids
- Total Solids
- Turbidity
- pH

#### Inorganics

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium (Diet)
- Cadmium (Water)
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Manganese (Diet)
- Manganese (Water)
- Mercury
- Nickel
- Selenium
- Silver
- Thallium
- Tin
- Vanadium
- Zinc

#### Microorganisms

- Fecal Coliform
- Fecal Streptococcus
- Heterotrophic Plate Count
- Total Coliforms (including Fecal Coliform and E. Coli)

#### Pesticides

- 4,4-DDD
- 4,4-DDE
- 4,4-DDT
- Aldrin
- Chlordane
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan Sulfate
- Endrin
- Endrin Aldehyde

- Heptachlor
- Heptachlor Epoxide
- Methoxychlor
- Toxaphene
- alpha-BHC
- alpha-Chlordane
- beta-BHC
- delta-BHC
- gamma-BHC (Lindane)
- gamma-Chlordane

#### Polychlorinated Biphenyls

- Aroclor 1016
- Aroclor 1016/1260
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260

#### Radionuclides

- Uranium

#### Semi-Volatile Organic Compounds

- 1,1'-Biphenyl
- 1,2,4,5-Tetrachlorobenzene
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,6-Dichlorophenol
- 2,6-Dinitrotoluene
- 2-Chloronaphthalene
- 2-Chlorophenol
- 2-Methylnaphthalene
- 2-Methylphenol (o-Cresol)
- 2-Nitrophenol
- 3&4-Methylphenol

*Continued on page 2.*



For more information contact:

**Environmental Health Information Center**

U.S. Naval Hospital Naples, Room 1096  
COMM: 39-081-811-6071  
DSN: 314-629-6071

**Navy and Marine Corps Public Health Center**

620 John Paul Jones Circle, Suite 1100  
Portsmouth, VA 23708  
757-953-0664  
Fax: 757-953-0675

**Naval Support Activity, Naples**

Public Affairs Office  
PSC 817 Box 40  
FPO AE 09622  
COMM: 39-081-568-5907  
DSN: 314-626-5907

- 3-Methylphenol
- 3-Nitroaniline
- 4,6-Dinitro-2-Methylphenol
- 4-Bromophenylphenylether
- 4-Chloro-3-Methylphenol
- 4-Chloroaniline
- 4-Methylphenol (p-Cresol)
- 4-Nitroaniline
- 4-Nitrophenol
- Acenaphthene
- Acenaphthylene
- Aniline
- Anthracene
- Atrazine
- Benzo(g,h,i)perylene
- Bis(2-ethylhexyl)phthalate
- Butylbenzylphthalate
- Carbazole
- Di-n-butylphthalate
- Di-n-octylphthalate
- Dibenzofuran
- Diethylphthalate
- Dimethylphthalate
- Diphenylamine
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Naphthalene
- Nitrobenzene
- Pentachlorobenzene
- Pentachloronitrobenzene
- Pentachlorophenol
- Phenanthrene
- Phenol
- Pyrene
- Total Carcinogenic PAHS (BaP TEQs)
- o-Toluidine

**Total Petroleum Hydrocarbons**

- Tph (c03-c20)
- Tph (c08-c40)

**Volatile Organic Compounds**

- 1,1,1,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-Chloropropane
- 1,2-Dibromoethane
- 1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone (methyl ethyl ketone)
- 2-Chlorotoluene
- 2-Hexanone
- 4-Chlorotoluene
- 4-Isopropyltoluene
- 4-Methyl-2-Pentanone
- Acetaldehyde
- Acetone
- Acetonitrile
- Acetophenone
- Acrolein
- Acrylonitrile
- Benzene
- Bis(2-Chloroethyl)ether
- Bis(chloromethyl)ether
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon Disulfide
- Carbon Tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Chloroprene
- Cyclohexane
- Dibromochloromethane
- Dibromomethane
- Dichlorodifluoromethane (Freon 12)
- Ethylbenzene
- Formaldehyde
- Hexane
- Isobutyl Alcohol
- Isophorone
- Isopropylbenzene
- Methyl Acetate
- Methyl tert-Butyl Ether
- Methylcyclohexane
- Methylene Chloride
- Pentachloroethane
- Styrene
- Tetrachloroethene
- Toluene
- Trans-1,4-Dichloro-2-Butene
- Trichloroethene
- Trichlorofluoromethane
- Vinyl Acetate
- Vinyl Chloride
- Xylenes, Total
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- m,p-Xylenes
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- sec-Butylbenzene
- tert-Butylbenzene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene