



Your Health: Facts for Navy Families in Naples

About: Chemicals and Microorganisms Analyzed

An important Public Health Evaluation was completed under the guidance of the Navy and Marine Corps Public Health Center. The Public Health Evaluation was 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 and completed in June 2011, the Public Health Evaluation involved the collection of air, water, soil and soil gas samples from throughout the region to identify whether there were 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 and Phase II Public Health Evaluation
Sixteen categories of chemicals/microorganisms were tested and analyzed in tap water, soil, soil gas and air samples during Phase I and Phase II of the Naples Public Health Evaluation. The chemicals/microorganisms tested varied depending on whether a sample was 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 NO₃⁻)
- Nitrite (measured as NO₂⁻)
- Phosphate
- Sulfate

Dioxins/Furans

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

Disinfectants

- Chlorine (as Cl₂)

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
- Uranium
- Vanadium
- Zinc

Microorganisms

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

Miscellaneous

- Particulate Matter (PM-10)

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

Radiological Parameters

- Gross Alpha
- Gross Beta
- Radium-228
- Strontium-90

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)

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- 2-Nitrophenol
 - 3&4-Methylphenol
 - 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)
- 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
 - Benzaldehyde
 - Bis(2-Chloroethyl)ether
 - Bromochloromethane
 - Bromodichloromethane
 - Bromoform
 - Bromomethane
 - Butyraldehyde
 - Carbon Disulfide
 - Carbon Tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Crotonaldehyde
 - Cyclohexane
 - Dibromochloromethane
 - Dibromomethane
 - Dichlorodifluoromethane (Freon 12)
 - Ethylbenzene
 - Formaldehyde
 - Hexaldehyde
 - Hexane
 - Isobutyl Alcohol
 - Isopropylbenzene
 - Methyl Acetate
 - Methacrylaldehyde
 - Methyl tert-Butyl Ether
 - Methylcyclohexane
 - Methylene Chloride
 - Pentachloroethane
 - Propionaldehyde
 - 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
 - m-Tolualdehyde
 - n-Butylbenzene
 - n-Propylbenzene
 - n-Valeraldehyde
 - o-Xylene
 - sec-Butylbenzene
 - tert-Butylbenzene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
- Continuous Air Monitoring Parameters**
- Sulfur dioxide
 - Nitrogen monoxide
 - Nitrogen dioxide
 - Nitrogen oxides
 - Carbon monoxide
 - Ozone