

Camp Justice: Chemicals and Microorganisms Analyzed



In response to health concerns from potential environmental exposures at Camp Justice, the Navy and Marine Corps Public Health Center (NMCPHC) is performing a Preliminary Health Screening Risk Assessment (HSRA). Over 200 samples were collected in and around Camp Justice buildings during October 2015 and the samples were tested to identify potential health risks and to determine if immediate actions were needed. The preliminary assessment was designed to evaluate the potential short and long-term health risks associated with living at Camp Justice. The assessment involved the collection of tap water, indoor air and soil samples throughout Camp Justice to identify whether there are potential health risks.

Chemicals and Microorganisms analyzed in the preliminary health screening risk assessment

Eleven categories of chemicals/microorganisms were tested and analyzed in tap water, indoor air, and soil during the health screening assessment. The chemicals/microorganisms tested varied depending on whether a sample was from tap water, indoor air or soil. The complete list of chemical and microorganisms is provided below.

Asbestos

- ◆ Asbestos

Disinfection Byproducts

- ◆ Total Haloacetic acids
- ◆ Total Trihalomethanes

Metals

- ◆ Aluminum
- ◆ Antimony
- ◆ Arsenic
- ◆ Barium
- ◆ Beryllium and compounds
- ◆ Cadmium
- ◆ Chromium
- ◆ Cobalt
- ◆ Copper
- ◆ Iron
- ◆ Lead
- ◆ Magnesium
- ◆ Manganese
- ◆ Mercury
- ◆ Nickel
- ◆ Selenium
- ◆ Silver
- ◆ Thallium
- ◆ Vanadium
- ◆ Zinc

Microorganisms

- ◆ Total Coliform

Minerals

- ◆ Calcium
- ◆ Potassium
- ◆ Sodium

Pesticides/Herbicides

- ◆ 2,4,5-Trichlorophenoxyacetic Acid
- ◆ 2,4,5-Trichlorophenoxypropionic Acid

- ◆ 2,4-Dichlorophenoxy Acetic Acid
- ◆ Aldrin
- ◆ alpha-Chlordane
- ◆ alpha-Hexachlorocyclohexane
- ◆ Azinphos Ethyl
- ◆ beta-Hexachlorocyclohexane
- ◆ Bolstar
- ◆ Chlordane
- ◆ Chlordecone
- ◆ Coumaphos
- ◆ DDD
- ◆ DDE
- ◆ DDT
- ◆ delta-Hexachlorocyclohexane
- ◆ Demeton-o
- ◆ Demeton-s
- ◆ Diazinon
- ◆ Dichloroprop
- ◆ Dieldrin
- ◆ Dimethoate
- ◆ Disulfoton
- ◆ Endosulfan I
- ◆ Endosulfan II
- ◆ Endosulfan sulfate
- ◆ Endrin
- ◆ Endrin aldehyde
- ◆ Endrin ketone
- ◆ Ethoprop
- ◆ Fensulfothion
- ◆ Fenthion
- ◆ gamma-Chlordane
- ◆ Heptachlor
- ◆ Heptachlor Epoxide
- ◆ Hexachlorocyclohexane
- ◆ Malathion
- ◆ Methoxychlor
- ◆ Methyl Parathion
- ◆ Mevinphos
- ◆ Parathion
- ◆ Phorate
- ◆ Prothiophos
- ◆ Tetraethyl Dithiopyrophosphate
- ◆ Toxaphene
- ◆ Trichloronate

Petroleum Products

- ◆ Diesel Range Organics
- ◆ Gasoline Range Organics
- ◆ Jet Fuel
- ◆ Kerosene
- ◆ Motor Oil Range Organics

Polychlorinated Biphenyls

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

Polycyclic Aromatic

Hydrocarbons

- ◆ 1-Methylnaphthalene
- ◆ 2-Methylnaphthalene
- ◆ Acenaphthene
- ◆ Acenaphthylene
- ◆ Anthracene
- ◆ Benz[a]anthracene
- ◆ Benzo(g,h,i)perylene
- ◆ Benzo[a]pyrene
- ◆ Benzo[b]fluoranthene
- ◆ Benzo[k]fluoranthene
- ◆ Chrysene
- ◆ Dibenz[a,h]anthracene
- ◆ Fluoranthene
- ◆ Fluorene
- ◆ Indeno[1,2,3-cd]pyrene
- ◆ Naphthalene
- ◆ Phenanthrene
- ◆ Pyrene

Semi-Volatile Organics

- ◆ 1,1,2-Trichloro-1,2,2-trifluoroethane
- ◆ 1,1'-Biphenyl
- ◆ 1,2,4,5-Tetrachlorobenzene
- ◆ 1,2,4-Trichlorobenzene
- ◆ 1,2,4-Trimethylbenzene
- ◆ 1,2-Dibromoethane
- ◆ 1,2-Dichlorobenzene
- ◆ 1,3,5-Trimethylbenzene
- ◆ 1,3-Butadiene
- ◆ 1,3-Dichlorobenzene
- ◆ 1,4-Dioxane
- ◆ 2,2,4-Trimethylpentane
- ◆ 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-Dinitrotoluene
- ◆ 2-Chlorophenol
- ◆ 2-Nitroaniline
- ◆ 2-Nitrophenol
- ◆ 3- & 4-Methylphenol Coelution
- ◆ 3,3'-Dichlorobenzidine
- ◆ 3-Nitroaniline
- ◆ 4-(2,4-Dichlorophenoxy)butyric Acid
- ◆ 4,6-Dinitro-o-cresol
- ◆ 4-Bromophenylphenylether
- ◆ 4-Chlorophenylphenylether
- ◆ 4-Nitroaniline
- ◆ 4-Nitrophenol
- ◆ Acetophenone
- ◆ Allyl Chloride
- ◆ Atrazine
- ◆ Benzaldehyde
- ◆ Benzyl Chloride
- ◆ beta-Chloronaphthalene
- ◆ Bis(2-chloro-1-methylethyl)ether
- ◆ Bis(2-chloroethoxy)methane
- ◆ Bis(2-chloroethyl)ether
- ◆ Bis(2-ethylhexyl)phthalate

- ◆ Butyl Benzyl Phthlate
- ◆ Caprolactam
- ◆ Carbazole
- ◆ Chloroacetic Acid
- ◆ Chlorobenzilate
- ◆ Chlorpyrifos
- ◆ cis-1,3-Dichloropropene
- ◆ Cumene
- ◆ Cyclohexane
- ◆ Dalapon
- ◆ Demeton
- ◆ Dibenzofuran
- ◆ Dibutyl-n-butyl Phthalate
- ◆ Dicamba
- ◆ Dichloroacetic Acid
- ◆ Dichlorodifluoromethane
- ◆ Dichlorvos
- ◆ Diethyl Phthalate
- ◆ Dimethyl Phthalate
- ◆ Di-n-octyl Phthalate
- ◆ Dinoseb
- ◆ Ethyl-p-nitrophenyl Phosphonate
- ◆ Famphur
- ◆ Formaldehyde
- ◆ Guthion
- ◆ Heptane
- ◆ Hexachlorobenzene
- ◆ Hexachlorobutadiene
- ◆ Hexachlorocyclopentadiene
- ◆ Hexachloroethane
- ◆ Isodrin
- ◆ Isophorone
- ◆ Isopropanol
- ◆ MCPA
- ◆ MCPP
- ◆ Merphos
- ◆ Methyl Isobutyl Ketone
- ◆ Methyl tert-Butyl Ether
- ◆ Naled
- ◆ N-Hexane
- ◆ Nitrobenzene
- ◆ N-Nitroso-di-N-propylamine
- ◆ N-Nitrosodiphenylamine
- ◆ O,O,O-Triethylphosphorothioate
- ◆ o-Cresol
- ◆ p-Chloroaniline
- ◆ p-chloro-m-Cresol
- ◆ Pentachlorophenol
- ◆ Phenol
- ◆ Phosmet
- ◆ Propazine
- ◆ Propyl benzene
- ◆ Ronnel
- ◆ Simazine
- ◆ Stirofos
- ◆ Thionazin
- ◆ trans-1,3-Dichloropropene
- ◆ Trichloroacetic Acid
- ◆ Trichlorofluoromethane

Volatile Organics

- ◆ 1,1,1-Trichloroethane
- ◆ 1,1,2,2-Tetrachloroethane
- ◆ 1,1,2-Trichloroethane
- ◆ 1,1-Dichloroethane
- ◆ 1,1-Dichloroethylene
- ◆ 1,2-cis-Dichloroethylene
- ◆ 1,2-Dichloroethane

- ◆ 1,2-Dichloropropane
- ◆ 1,2-trans-Dichloroethylene
- ◆ 1,4-Dichlorobenzene
- ◆ 2-Hexanone
- ◆ 4-Ethyltoluene
- ◆ Acetone
- ◆ Benzene
- ◆ Bromodichloromethane
- ◆ Bromoform
- ◆ Bromomethane
- ◆ Carbon Disulfide
- ◆ Carbon Tetrachloride
- ◆ Chlorobenzene
- ◆ Chloroform
- ◆ Chloromethane
- ◆ Dibromoacetic Acid
- ◆ Dibromochloromethane
- ◆ Ethanol
- ◆ Ethyl Chloride
- ◆ Ethylbenzene
- ◆ Freon 114
- ◆ m&p-Xylene
- ◆ Methyl Ethyl Ketone
- ◆ Methylene Chloride
- ◆ Monobromoacetic Acid
- ◆ o-Xylene
- ◆ Styrene
- ◆ Tetrachloroethylene
- ◆ Tetrahydrofuran
- ◆ Toluene
- ◆ Trichloroethylene
- ◆ Vinyl Chloride

Navy and Marine Corps Public Health Center

620 John Paul Jones Circle,
Suite 1100
Portsmouth, VA 23708-2103
Phone: (757)-953-0932
www.nmcphe.med.navy.mil

