

# Contaminated Water Supplies at Camp Lejeune

ASSESSING POTENTIAL HEALTH EFFECTS



# Contaminated Water Supplies At Camp Lejeune Assessing Potential Health Effects

**United States. Congress. House.  
Committee on Science and Technology  
(2007). Subcommittee on  
Investigations and Oversight**

## **Contaminated Water Supplies At Camp Lejeune Assessing Potential Health Effects:**

**Contaminated Water Supplies at Camp Lejeune** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Contaminated Drinking Water at Camp Lejeune, 2009-09-06 In the early 1980s two water supply systems on the Marine Corps Base Camp Lejeune in North Carolina were found to be contaminated with the industrial solvents trichloroethylene TCE and perchloroethylene PCE The water systems were supplied by the Tarawa Terrace and Hadnot Point water treatment plants which served enlisted family housing barracks for unmarried service personnel base administrative offices schools and recreational areas The Hadnot Point water system also served the base hospital and an industrial area and supplied water to housing on the Holcomb Boulevard water system full time until 1972 and periodically thereafter This book examines what is known about the contamination of the water supplies at Camp Lejeune and whether the contamination can be linked to any adverse health outcomes in former residents and workers at the base

**Camp Lejeune** United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Investigations and Oversight, 2010

**Federal Register**, 2013-09

**VA/DOD Response to Certain Military Exposures** United States. Congress. Senate. Committee on Veterans' Affairs, 2010

*Potential Health Risks to DOD Firing-Range Personnel from Recurrent Lead Exposure* National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Potential Health Risks from Recurrent Lead Exposure of DOD Firing Range Personnel, 2013-04-20 Lead is a ubiquitous metal in the environment and its adverse effects on human health are well documented Lead interacts at multiple cellular sites and can alter protein function in part through binding to amino acid sulfhydryl and carboxyl groups on a wide variety of structural and functional proteins In addition lead mimics calcium and other divalent cations and it induces the increased production of cytotoxic reactive oxygen species Adverse effects associated with lead exposure can be observed in multiple body systems including the nervous cardiovascular renal hematologic immunologic and reproductive systems Lead exposure is also known to induce adverse developmental effects in utero and in the developing neonate Lead poses an occupational health hazard and the Occupational Safety and Health Administration OSHA developed a lead standard for general industry that regulates many workplace exposures to this metal The standard was promulgated in 1978 and encompasses several approaches for reducing exposure to lead including the establishment of a permissible exposure limit PEL of 50 g m<sup>3</sup> in air an 8 hour time weighted average TWA exposure guidelines for instituting medical surveillance guidelines for removal from and return to work and other risk management strategies An action level of 30 g m<sup>3</sup> an 8 hour TWA for lead was established to trigger medical surveillance in employees exposed above that level for more than 30 days per year Another provision is that any employee who has a blood lead level BLL of 60 g dL or higher or three consecutive BLLs averaging 50 g dL or higher must be removed from work involving lead exposure An employee may resume work associated with lead exposure only after two BLLs are

lower than 40 g dL Thus maintaining BLLs lower than 40 g dL was judged by OSHA to protect workers from adverse health effects The OSHA standard also includes a recommendation that BLLs of workers who are planning a pregnancy be under 30 g dL In light of knowledge about the hazards posed by occupational lead exposure the Department of Defense DOD asked the National Research Council to evaluate potential health risks from recurrent lead exposure of firing range personnel Specifically DOD asked the National Research Council to determine whether current exposure standards for lead on DOD firing ranges protect its workers adequately The committee also considered measures of cumulative lead dose Potential Health Risks to DOD Firing Range Personnel from Recurrent Lead Exposure will help to inform decisions about setting new air exposure limits for lead on firing ranges about whether to implement limits for surface contamination and about how to design lead surveillance programs for range personnel appropriately

The Veterans Administration: A Broken System(Revised) Stephen ReedBS .Rel, MS. Theo, MS. Social Work,2015-09-13 President Hoover in his 1929 State of the Union message proposed consolidating agencies administering veteran s benefits The following year Congress created the Veterans Administration by uniting three bureaus the previously independent Veterans Bureau the Bureau of Pensions and the National Homes for Disabled Volunteer Soldiers President Hoover signed the executive order establishing the VA on July 21 1930 Hines who had served since 1923 as director of the Veterans Bureau was named the first administrator of the agency

**Review of VA Clinical Guidance for the Health Conditions Identified by the Camp Lejeune Legislation** Institute of Medicine,Board on the Health of Select Populations,Committee on the Review of Clinical Guidance for the Care of Health Conditions Identified by the Camp Lejeune Legislation,2015-03-26 U S Marine Corps Base Camp Lejeune located in eastern North Carolina is a large installation that covers 156 000 acres and is home at any given time to a population of about 170 000 active duty personnel family members retirees and civilian employees living on base or in the surrounding community Between 1957 and 1987 the ground water at Camp Lejeune was inadvertently contaminated with chemicals primarily industrial solvents that are now known to cause cancer and other health problems In 1980 drinking water contaminants primarily trichloroethylene TCE and perchloroethylene PCE as well as other solvents were first detected at Camp Lejeune in treated drinking water The contaminated wells were closed in 1987 In 1989 the U S Environmental Protection Agency placed Camp Lejeune on the National Priorities List also known as Superfund It is estimated that between 500 000 and 1 000 000 people may have used the contaminated water and many of them continue to have concerns about the long term effects that might result from that exposure In 2012 Congress passed the Honoring America s Veterans and Caring for Camp Lejeune Families Act The law provides health benefits to veterans and family members who have any of 15 health outcomes associated with exposure to TCE PCE or solvent mixtures At the request of the Veteran s Administration Review of the VA Guidance for the Health Conditions Identified by the Camp Lejeune Legislation reviews the latest scientific literature to ensure that the clinical guidance provided for the 15 covered medical conditions is scientifically sound This report also

describes the medical conditions that result from renal toxicity due to solvent exposures and characterizes neurobehavioral effects as mandated for coverage in the law Gulf War and Health National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Committee on Gulf War and Health, Volume 11: Generational Health Effects of Serving in the Gulf War, 2019-01-20 For the United States the 1991 Persian Gulf War was a brief and successful military operation with few injuries and deaths However soon after returning from duty a large number of veterans began reporting health problems they believed were associated with their service in the Gulf At the request of Congress the National Academies of Sciences Engineering and Medicine has been conducting an ongoing review of the evidence to determine veterans long term health problems and potential causes Some of the health effects identified by past reports include post traumatic stress disorders other mental health disorders Gulf War illness respiratory effects and self reported sexual dysfunction Veterans concerns regarding the impacts of deployment related exposures on their health have grown to include potential adverse effects on the health of their children and grandchildren These concerns now increasingly involve female veterans as more women join the military and are deployed to war zones and areas that pose potential hazards Gulf War and Health Volume 11 evaluates the scientific and medical literature on reproductive and developmental effects and health outcomes associated with Gulf War and Post 9 11 exposures and designates research areas requiring further scientific study on potential health effects in the descendants of veterans of any era Va Handbook for Veterans and Advocates Tyson Manker, 2020-11-29 VA Handbook for Veterans and Advocates was written by a service connected combat veteran and licensed attorney for fellow veterans and advocates who want to file a claim with the U S Department of Veterans Affairs VA for disability compensation health care and other benefits Advocates and family members will also find it useful The Handbook provides an A to Z explanation of the claims process from gathering records and speaking with accredited individuals to filing a claim for benefits and appealing improper denials It explains the hierarchy of veterans law how to understand and apply decisions from the U S Court of Appeals for Veterans Claims the significance of the M21 1 Manual and more VA Handbook also breaks down the modernized appeals system that went into effect in February 2019 with a detailed look at each option that is now available to veterans in the updated appeals process It should be required reading for all veterans and advocates If you are going to file a claim for VA benefits get VA Handbook for Veterans and Advocates Review of Studies of Possible Toxic Effects from Past Environmental Contamination at Fort Detrick National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee to Review Studies of Possible Toxic Effects from Past Environmental Contamination at Fort Detrick, 2012-03-05 Fort Detrick s Area B has been used for disposal of chemical biological and radiological material storage of explosives and research activities The groundwater of Area B was contaminated by perchloroethylene PCE and trichloroethylene TCE which leaked from storage drums buried in Area B Members of the public who live near Fort Detrick in

Frederick County Maryland are concerned that the contaminated groundwater might have affected their health This report reviews two investigations of potential health hazards a 2009 public health assessment conducted by the Agency for Toxic Substances and Disease Registry and a cancer investigation in Frederick County by the Maryland Department of Health and Mental Hygiene and the Frederick County Health Department **Hearing on Pending Legislation** United States.

Congress. Senate. Committee on Veterans' Affairs,2017 **Ending Parkinson's Disease** Ray Dorsey,Todd Sherer,Michael S. Okun,Bastiaan R. Bloem,2020-03-17 In this must read guide Lonnie Ali four leading doctors and advocates offer a bold action plan to prevent care for and treat Parkinson s disease one of the great health challenges of our time Brain diseases are now the world s leading source of disability The fastest growing of these is Parkinson s the number of impacted patients has doubled to more than six million over the last twenty five years and is projected to double again by 2040 Harmful pesticides that increase the risk of Parkinson s continue to proliferate many people remain undiagnosed and untreated research funding stagnates and the most effective treatment is now a half century old In Ending Parkinson s Disease four top experts provide a plan to help prevent Parkinson s improve care and treatment and end the silence associated with this devastating disease

Hidden Costs of Energy National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Health, Environmental, and Other External Costs and Benefits of Energy Production and Consumption,2010-06-26 Despite the many benefits of energy most of which are reflected in energy market prices the production distribution and use of energy causes negative effects Many of these negative effects are not reflected in energy market prices When market failures like this occur there may be a case for government interventions in the form of regulations taxes fees tradable permits or other instruments that will motivate recognition of these external or hidden costs The Hidden Costs of Energy defines and evaluates key external costs and benefits that are associated with the production distribution and use of energy but are not reflected in market prices The damage estimates presented are substantial and reflect damages from air pollution associated with electricity generation motor vehicle transportation and heat generation The book also considers other effects not quantified in dollar amounts such as damages from climate change effects of some air pollutants such as mercury and risks to national security While not a comprehensive guide to policy this analysis indicates that major initiatives to further reduce other emissions improve energy efficiency or shift to a cleaner electricity generating mix could substantially reduce the damages of external effects A first step in minimizing the adverse consequences of new energy technologies is to better understand these external effects and damages The Hidden Costs of Energy will therefore be a vital informational tool for government policy makers scientists and economists in even the earliest stages of research and development on energy technologies **A Trust Betrayed** Mike Magner,2025-05-01 While the big bad corporation has often been the offender in many of the world s greatest environmental

disasters in the case of the mass poisoning at Camp Lejeune the culprit is a revered institution the US Marine Corps For two decades now revelations have steadily emerged about pervasive contamination associated clusters of illness and death among the Marine families stationed there and military stonewalling and failure to act Mike Wagner s chilling investigation creates a suspenseful narrative from the individual stories scientific evidence and smoldering sense of betrayal among those whose motto is undying fidelity He also raises far reaching and ominous questions about widespread contamination on US military bases worldwide

*Assessing Risks to Endangered and Threatened Species from Pesticides* National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Ecological Risk Assessment Under FIFRA and ESA, 2013-07-20 The US Fish and Wildlife Service FWS and the National Marine Fisheries Service NMFS are responsible for protecting species that are listed as endangered or threatened under the Endangered Species Act ESA and for protecting habitats that are critical for their survival The US Environmental Protection Agency EPA is responsible for registering or reregistering pesticides under the Federal Insecticide Fungicide and Rodenticide Act FIFRA and must ensure that pesticide use does not cause any unreasonable adverse effects on the environment which is interpreted to include listed species and their critical habitats The agencies have developed their own approaches to evaluating environmental risk and their approaches differ because their legal mandates responsibilities institutional cultures and expertise differ Over the years the agencies have tried to resolve their differences but have been unsuccessful in reaching a consensus regarding their assessment approaches As a result FWS NMFS EPA and the US Department of Agriculture asked the National Research Council NRC to examine scientific and technical issues related to determining risks posed to listed species by pesticides Specifically the NRC was asked to evaluate methods for identifying the best scientific data available to evaluate approaches for developing modeling assumptions to identify authoritative geospatial information that might be used in risk assessments to review approaches for characterizing sublethal indirect and cumulative effects to assess the scientific information available for estimating effects of mixtures and inert ingredients and to consider the use of uncertainty factors to account for gaps in data

*Assessing Risks to Endangered and Threatened Species from Pesticides* which was prepared by the NRC Committee on Ecological Risk Assessment under FIFRA and ESA is the response to that request

**Science for Environmental Protection** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Science for EPA's Future, 2012-12-21 In anticipation of future environmental science and engineering challenges and technologic advances EPA asked the National Research Council NRC to assess the overall capabilities of the agency to develop obtain and use the best available scientific and technologic information and tools to meet persistent emerging and future mission challenges and opportunities Although the committee cannot predict with certainty what new environmental problems EPA will face in the next 10 years or more it worked to identify some of the common drivers and common characteristics of problems that are likely to occur Tensions inherent to the structure of EPA s

work contribute to the current and persistent challenges faced by the agency and meeting those challenges will require development of leading edge scientific methods tools and technologies and a more deliberate approach to systems thinking and interdisciplinary science Science for Environmental Protection The Road Ahead outlines a framework for building science for environmental protection in the 21st century and identified key areas where enhanced leadership and capacity can strengthen the agency's abilities to address current and emerging environmental challenges as well as take advantage of new tools and technologies to address them The foundation of EPA science is strong but the agency needs to continue to address numerous present and future challenges if it is to maintain its science leadership and meet its expanding mandates

**Acute Exposure Guideline Levels for Selected Airborne Chemicals** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Acute Exposure Guideline Levels, 2009-10-30 This book is the ninth volume in the series Acute Exposure Guideline Levels for Selected Airborne Chemicals and reviews AEGLs for bromine ethylene oxide furan hydrogen sulfide propylene oxide and xylenes

**Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants, 2009-10-21 U S Navy personnel who work on submarines are in an enclosed and isolated environment for days or weeks at a time when at sea Unlike a typical work environment they are potentially exposed to air contaminants 24 hours a day To protect workers from potential adverse health effects due to those conditions the U S Navy has established exposure guidance levels for a number of contaminants The Navy asked a subcommittee of the National Research Council NRC to review and develop when necessary exposure guidance levels for specific contaminants This volume the third in a series recommends 1 hour and 24 hour emergency exposure guidance levels EEGLs and 90 day continuous exposure guidance levels CEGLs for acetaldehyde hydrogen chloride hydrogen fluoride hydrogen sulfide and propylene glycol dinitrate

**Examination of Exposures to Environmental Hazards During Military Service and Health Care for Camp Lejeune and Atsugi Naval Air Facility Veterans and Their Families Act of 2010** United States. Congress. Senate. Committee on Veterans' Affairs, 2010 *Improving Health in the United States* National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Health Impact Assessment, 2011-10-14 Factoring health and related costs into decision making is essential to confronting the nation's health problems and enhancing public well being Some policies and programs historically not recognized as relating to health are believed or known to have important health consequences For example public health has been linked to an array of policies that determine the quality and location of housing availability of public transportation land use and street connectivity agricultural practices and the availability of various types of food and development and location of businesses and industry



Improving Health in the United States The Role of Health Impact Assessment offers guidance to officials in the public and private sectors on conducting HIAs to evaluate public health consequences of proposed decisions such as those to build a major roadway plan a city's growth or develop national agricultural policies and suggests actions that could minimize adverse health impacts and optimize beneficial ones Several approaches could be used to incorporate aspects of health into decision making but HIA holds particular promise because of its applicability to a broad array of programs consideration of both adverse and beneficial health effects ability to consider and incorporate various types of evidence and engagement of communities and stakeholders in a deliberative process The report notes that HIA should not be assumed to be the best approach to every health policy question but rather should be seen as part of a spectrum of public health and policy oriented approaches The report presents a six step framework for conducting HIA of proposed policies programs plans and projects at federal state tribal and local levels including within the private sector In addition the report identifies several challenges to the successful use of HIA such as balancing the need to provide timely information with the realities of varying data quality producing quantitative estimates of health effects and engaging stakeholders

## Whispering the Strategies of Language: An Emotional Quest through **Contaminated Water Supplies At Camp Lejeune Assessing Potential Health Effects**

In a digitally-driven world where displays reign supreme and quick interaction drowns out the subtleties of language, the profound secrets and psychological nuances concealed within words often move unheard. However, located within the pages of **Contaminated Water Supplies At Camp Lejeune Assessing Potential Health Effects** a interesting literary prize sporting with raw thoughts, lies an exceptional journey waiting to be undertaken. Published by a skilled wordsmith, this marvelous opus encourages viewers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within ab muscles fabric of each word. Within the psychological depths of the touching evaluation, we will embark upon a genuine exploration of the book is core subjects, dissect their interesting writing fashion, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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