



Spills of Nonfloating Oils

Risk and Response

National Research Council

Spills Of Nonfloating Oils Risk And Response

**Lawrence K. Wang, Yung-Tse
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Spills Of Nonfloating Oils Risk And Response:

Spills of Nonfloating Oils Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Marine Board, 1999-07-27 In the Coast Guard Authorization Act of 1996 the United States Coast Guard USCG was directed to assess the risk of spills for oils that may sink or be negatively buoyant to examine and evaluate existing cleanup technologies and to identify and appraise technological and financial barriers that could impede a prompt response to such spills The USCG requested that the National Research Council NRC perform these tasks In response to this request the NRC established the Committee on the Marine Transportation of Heavy Oils *Spills of Nonfloating Oils* Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Marine Board, 1999-08-27 In the Coast Guard Authorization Act of 1996 the United States Coast Guard USCG was directed to assess the risk of spills for oils that may sink or be negatively buoyant to examine and evaluate existing cleanup technologies and to identify and appraise technological and financial barriers that could impede a prompt response to such spills The USCG requested that the National Research Council NRC perform these tasks In response to this request the NRC established the Committee on the Marine Transportation of Heavy Oils *Oil Spill Science and Technology* Mervin Fingas, 2016-11-23 *Oil Spill Science and Technology* Second Edition delivers a multi contributed view on the entire chain of oil spill related topics from oil properties and behaviors to remote sensing through the management side of contingency planning and communicating oil spill risk perceptions Completely new case studies are included with special attention to the Deepwater Horizon event covering the impacts of wetlands and sand beaches a mass balance approach and the process for removing petroleum chemicals still trapped near Alabama beaches Other new information on lingering oil left behind from the Exxon Valdez spill the emergency system used in the Prestige incident and coverage on the Heibei Spirit spill in Korea are also included This updated edition combines technology with case studies to identify the current state of knowledge surrounding oil spills that will encourage additional areas of research that are left to uncover in this critical sector of the oil and gas industry Updated with new chapters on risk analysis and communication contingency planning restoration and case studies Supported with technological advances evolved from the Deepwater Horizon BP oil tragedy and events in the Arctic Antarctic Multi contributed from various industry experts to provide an extensive background in technical equipment and worldwide procedures used today

Proceedings of the Marine Safety & Security Council, 2015 *Assessing the Effects of the Gulf of Mexico Oil Spill on Human Health* Institute of Medicine, 2010-10-01 From the origin of the leak to the amount of oil released into the environment to the spill s duration the 2010 Gulf of Mexico oil spill poses unique challenges to human health The risks associated with extensive prolonged use of dispersants with oil fumes and with particulate matter from controlled burns are also uncertain There have been concerns about the extent to which hazards such as physical and chemical exposures and social and economic disruptions will impact the overall health of people who live and work near the area of the oil spill

Although studies of previous oil spills provide some basis for identifying and mitigating the human health effects of these exposures the existing data are insufficient to fully understand and predict the overall impact of hazards from the Deepwater Horizon oil spill on the health of workers volunteers residents visitors and special populations Assessing the Effects of the Gulf of Mexico Oil Spill on Human Health identifies populations at increased risks for adverse health effects and explores effective communication strategies to convey health information to these at risk populations The book also discusses the need for appropriate surveillance systems to monitor the spill s potential short and long term health effects on affected communities and individuals Assessing the Effects of the Gulf of Mexico Oil Spill on Human Health is a useful resource that can help policy makers public health officials academics community advocates scientists and members of the public collaborate to create a monitoring and surveillance system that results in actionable information and that identifies emerging health risks in specific populations

Deepwater Horizon United States. Congress. House. Committee on Transportation and Infrastructure, 2010

Spills of Diluted Bitumen from Pipelines National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on the Effects of Diluted Bitumen on the Environment, 2016-03-22 Diluted bitumen has been transported by pipeline in the United States for more than 40 years with the amount increasing recently as a result of improved extraction technologies and resulting increases in production and exportation of Canadian diluted bitumen The increased importation of Canadian diluted bitumen to the United States has strained the existing pipeline capacity and contributed to the expansion of pipeline mileage over the past 5 years Although rising North American crude oil production has resulted in greater transport of crude oil by rail or tanker oil pipelines continue to deliver the vast majority of crude oil supplies to U S refineries Spills of Diluted Bitumen from Pipelines examines the current state of knowledge and identifies the relevant properties and characteristics of the transport fate and effects of diluted bitumen and commonly transported crude oils when spilled in the environment This report assesses whether the differences between properties of diluted bitumen and those of other commonly transported crude oils warrant modifications to the regulations governing spill response plans and cleanup Given the nature of pipeline operations response planning and the oil industry the recommendations outlined in this study are broadly applicable to other modes of transportation as well

Spills of Emulsified Fuels National Research Council, Transportation Research Board, Marine Board, Division on Earth and Life Studies, Ocean Studies Board, 2002-01-29 Spills of Emulsified Fuels Risks and Response is part of an evolving body of work conducted by the National Research Council NRC to help inform debate and decision making regarding the ecological consequences of releases associated with the widespread use of fossil fuels Like earlier NRC reports it attempts to understand the chemical physical and biological behavior of a complex mix of compounds that make up various petroleum hydrocarbon based fuels The specific risk factors presented by emulsified fuels are difficult to characterize mainly because there have been no spills of emulsified fuels to date and thus there is little practical experience with these

products

Oil in the Environment John A. Wiens, 2013-07-18 Scientists directly involved in studying the Exxon Valdez spill provide a comprehensive synthesis of scientific information on long term spill effects

IMO/UNEP Guidance Manual on the Assessment and Restoration of Environmental Damage Following Marine Oil Spills International Maritime Organization, United Nations Environment Programme, 2009 On 27 July 2003 the oil tanker Tasman Spirit ran aground spilling a portion of its 67 000 tonne cargo of Iranian Light Crude Oil into Karachi Harbour in Karachi Pakistan The loss of product resulted in environmental damage with heavy oiling of the shoreline in Karachi Harbour and surrounding areas Recognizing the need for international guidance to assist nations in assessing damage to natural resources following major oil spills in the aftermath of this incident the United Nations Environment Programme UNEP soon thereafter initiated the development of a manual on natural resource damage assessment and restoration following major oil spills Given IMO's specialised expertise on preparedness for and response to accidental marine pollution issues and the long history of collaboration between IMO and UNEP the two organisations agreed to the development of the Manual as a joint publication With a view to providing operational guidance the IMO UNEP Guidance manual on the assessment and restoration of environmental damage following marine oil spills has been developed through the OPRC HNS Technical Group of the Marine Environment Protection Committee of IMO in full collaboration and partnership with the United Nations Environment Programme The objective of the Manual is to provide guidance on strategies that may be used to assess the damage and subsequent recovery of the environment resulting from marine pollution incidents Available techniques are considered together with criteria to help judge the feasibility of such measures to bring about successful recovery of those environments The Manual emphasizes the importance of pre spill planning and provides an overview of assessment techniques and restoration measures in various ecosystems It also provides guidance on opportunities for compensation through the international oil compensation schemes Practical examples of natural resource assessment and restoration are provided through a series of case studies

State of the Coast Guard United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard, 2017

Oil in the Sea III National Research Council, Transportation Research Board, Division on Earth and Life Studies, Marine Board, Ocean Studies Board, Committee on Oil in the Sea: Inputs, Fates, and Effects, 2003-03-14 Since the early 1970s experts have recognized that petroleum pollutants were being discharged in marine waters worldwide from oil spills vessel operations and land based sources Public attention to oil spills has forced improvements Still a considerable amount of oil is discharged yearly into sensitive coastal environments Oil in the Sea provides the best available estimate of oil pollutant discharge into marine waters including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent Featuring close up looks at the Exxon Valdez spill and other notable events the book identifies important research questions and makes recommendations for better analysis of and more effective measures against pollutant discharge The

book discusses Input where the discharges come from including the role of two stroke engines used on recreational craft Behavior or fate how oil is affected by processes such as evaporation as it moves through the marine environment Effects what we know about the effects of petroleum hydrocarbons on marine organisms and ecosystems Providing a needed update on a problem of international importance this book will be of interest to energy policy makers industry officials and managers engineers and researchers and advocates for the marine environment *Guideline for Oil Spill Response in Fast Currents* International Maritime Organization,2013 The aim of this Guideline is to provide essential information and a practical aid to oil spill response personnel for the development of response strategies and for the implementation of oil spill containment and clean up measures in a fast water environment It is intended for personnel who already have an understanding of the basics of oil containment and recovery using conventional spill response equipment such as booms and skimmers and provide information on the particular considerations and strategies that are required for pollution response in fast currents

Advanced Physicochemical Treatment Processes Lawrence K. Wang,Yung-Tse Hung,Nazih K. Shammash,2007-11-10 The past thirty years have witnessed a growing worldwide desire that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Because pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the last two questions above The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken **Total Petroleum Hydrocarbons** Saranya Kuppasamy,Naga Raju Maddela,Mallavarapu Megharaj,Kadiyala Venkateswarlu,2019-08-13 The term total petroleum hydrocarbons TPHs is used for any mixture of several hundred hydrocarbons found in crude oil and they represent the sum of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons The petrol range organics include hydrocarbons from C6 to C10 while diesel range organics are C10 C28 hydrocarbons Environmental pollution by petroleum hydrocarbons is one of the major global concerns particularly in oil yielding countries In fact there are more than five million potentially contaminated areas worldwide that represent in general a lost economic opportunity and a threat to the health and well being of humans and the environment Petroleum contaminated sites constitute almost one third of the total sites

polluted with chemicals around the globe The land contamination caused by industrialization was recognized as early as the 1960s but less than a tenth of potentially contaminated lands have been remediated due to the nature of the contamination cost technical impracticability and insufficient land legislation and enforcement This book is the first single source that provides comprehensive information on the different aspects of TPHs such as sources and range of products methods of analysis fate and bioavailability ecological implications including impact on human health potential approaches for bioremediation such as risk based remediation and regulatory assessment procedures for TPH contaminated sites As such it is a valuable resource for researchers graduate students technicians in the oil industry and remediation practitioners as well as policy makers

Marine Salvage Capabilities National Research Council (U.S.). Committee for Marine Salvage Response Capability. Workshop, 2004-07-06 TRB Conference Proceedings 30 Marine Salvage Capabilities Responding to Terrorist Attacks in U S Ports Actions to Improve Readiness is the report of the TRB Marine Board Workshop on Marine Salvage Response Capability held on August 5 6 2003 in Washington DC The workshop addressed economic legal forensic environmental and human casualty issues related to salvage The report contains a summary of workshop discussions and committee recommendations highlighting important topics and issues associated with marine salvage that warrant further more detailed inquiry by the responsible federal agencies

Oil Spill Modelling and Processes C. A. Brebbia, 2001 The ever growing demand for energy in our society continues to increase the potential for the occurrence of major oil spills usually resulting from its transport from the production countries to the global market Such oil spills from tankers and pipelines have resulted in considerable damage to the environment

Oil Spills in Mangroves, Planning & Response Considerations, January 2002 ,2002 *Oil Spills in Mangroves* ,2002 **Science and Government Report** ,1999

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