Sampling And Surveying Radiological Environments

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Field Survey Techniques (FULL) - Texas Parks and Wildlife [Official]

Our Spooky Universe with Paul Sutter~~Sampling with Quadrats - GCSE Biology Required Practical~~ Archaeological Sampling Techniques Research Methods 1: Sampling Techniques Part I: Introduction to DHS Sampling Procedures **Soil Texture Environmental Studies - Belt Transects** ~~Video demo - Using Quadrats to Study Grassland Ecology~~ ~~Quota Sampling~~ Transect, Quadrats and Percentage Cover to investigate the Distribution of Clover. *Sampling: Simple Random, Convenience, systematic, cluster, stratified - Statistics Help*

Types of Sampling Methods (4.1)*Episode 3 - Plant Sampling Techniques What's up, buttercup? Population sampling techniques | A Big Picture film 1.1 What Is A Research GCSE Science Revision Biology |"Sampling Organisms|" Types of sampling in research:simple explanation /english*

Sampling methodsACADIA 2020 Opening Keynote: A Conversation on Ecology \u0026 Ethics ~~11 Sampling methods~~ ~~Tea Talk and Telescope - Chemistry in Space~~

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Private landowners or Federal Agencies responsible for cleaning up radiological environments are faced with the challenge of clearly defining the nature and extent of radiological contamination, implementing remedial alternatives, then statistically verifying that cleanup objectives have been met. Sampling and Surveying Radiological Environments provides the how-tos for designing and implementing cost effective and defensible sampling programs in radiological environments, such as those found in the vicinity of uranium mine sites, nuclear weapons production facilities, nuclear reactors, radioactive waste storage and disposal facilities, and nuclear accidents. It includes a CD-ROM that walks you through the EPA's Data Quality Objectives(DQO) procedures and provides electronic templates you can complete and print. Sampling and Surveying Radiological Environments addresses all of the major topics that will assist you in designing and implementing statistically defensible sampling programs in radiological environments, including: Summary of the major environmental laws and regulations that apply to radiological sites, and advice on regulatory interfacing · Internet addresses where you can find regulations pertaining to each States Theory of radiation detection and definitions of common radiological terminology Statistics and statistical software that apply to the environmental industry Details on commercially available radiological instrumentation and detection systems Building decontamination and decommissioning, radiological and chemical equipment decontamination procedures, and tank/drum/remote characterization Standard operating procedures for collecting environmental media samples Guidance on sample preparation, documentation, and shipment Guidance on data verification/validation, radiological data management, data quality assessment (DQA) · An electronic template to assist you in implementing the EPA's seven step DQO procedure and in the writing of a DQO Summary Report, and Sampling and Analysis Plan · Recommendations for developing a Sampling and Analysis Plan · Guidance on developing statistical sampling and survey designs Guidance on developing integrated sampling and survey designs Capabilities of various statistical sampling design software packages along with Internet addresses for web pages where statistical software can be downloaded at no cost to you Effectiveness of various scanning and direct measurement methods Sampling and Surveying Radiological Environments provides you with the most cost effective methods and technologies for sampling, characterizing, and remediating radiologically contaminated environments. It includes guidance on how to design programs using radiological screening technologies and statistical sampling approaches to meet the data quality objectives while minimizing cost.

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The U.S. Department of Energy (DOE) owns, operates, and manages the buildings and land areas on the Oak Ridge Reservation (ORR) in Oak Ridge, Tennessee. As land and buildings are declared excess or underutilized, it is the intent of DOE to either transfer the title of or lease suitable property to the Community Reuse Organization of East Tennessee (CROET) or other entities for public use. It is DOE's responsibility, in coordination with the U.S. Environmental Protection Agency (EPA), Region 4, and the Tennessee Department of Environment and Conservation (TDEC), to ensure that the land, facilities, and personal property that are to have the title transferred or are to be leased are suitable for public use. Release of personal property must also meet site requirements and be approved by the DOE contractor responsible for site radiological control. The terms title transfer and lease in this document have unique meanings. Title transfer will result in release of ownership without any restriction or further control by DOE. Under lease conditions, the government retains ownership of the property along with the responsibility to oversee property utilization. This includes involvement in the lessee's health, safety, and radiological control plans and conduct of site inspections. It may also entail lease restrictions, such as limiting access to certain areas or prohibiting digging, drilling, or disturbing material under surface coatings. Survey and sampling requirements are generally more rigorous for title transfer than for lease. Because of the accelerated clean up process, there is an increasing emphasis on title transfers of facilities and land. The purpose of this document is to describe the radiological survey and sampling protocols that are being used for assessing the radiological conditions and characteristics of building and land areas on the Oak Ridge Reservation that contain space potentially available for title transfer or lease. After necessary surveys and sampling and laboratory analyses are completed, the data are analyzed and included in an Environmental Baseline Summary (EBS) report for title transfer or in a Baseline Environmental Analysis Report (BEAR) for lease. The data from the BEAR is then used in a Screening-Level Human Health Risk Assessment (SHHRA) or a risk calculation (RC) to assess the potential risks to future owners/occupants. If title is to be transferred, release criteria in the form of specific activity concentrations called Derived Concentration Guideline Levels (DCGLs) will be developed for the each property. The DCGLs are based on the risk model and are used with the data in the EBS to determine, with statistical confidence, that the release criteria for the property have been met. The goal of the survey and sampling efforts is to (1) document the baseline conditions of the property (real or personal) prior to title transfer or lease, (2) obtain enough information that an evaluation of radiological risks can be made, and (3) collect sufftcient data so that areas that contain minimal residual levels of radioactivity can be identified and, following radiological control procedures, be released from radiological control. (It should be noted that release from radiological control does not necessarily mean free release because DOE may maintain institutional control of the site after it is released from radiological control). To meet the goals of this document, a Data Quality Objective (DQO) process will be used to enhance data collection efficiency and assist with decision-making. The steps of the DQO process involve stating the problem, identifying the decision, identifying inputs to the decision, developing study boundaries, developing the decision rule, and optimizing the design. This document describes the DQOs chosen for surveys and sampling efforts performed for the purposes listed above. The previous version to this document focused on the requirements for radiological survey and sampling protocols that are be used for leasing. Because the primary focus at this time is on title transfer, this revision applies to both situations.

This report documents the results of radiological surveys and environmental surveys and environmental sampling conducted during the annual Radiological Survey at the 1960 BOMARC accident site, Fort Dix, NJ. The surveys were performed by personnel from the Radiation Sciences Division, USAFOEHL, during 15-12 September 1985. The report concludes that the plutonium contamination appears to be still fixed under the reinforced concrete apron in front of the missile shelter. Little or no vertical movement of the plutonium has occurred in the soil since the accident. Significant plutonium contamination was not found outside the BOMARC site boundary. None of the off-site sampling locations exceeded the USEPA's proposed limits for transuranics in the uncontrolled environment.

This publication addresses the sampling of soil and vegetation in terrestrial ecosystems, including agricultural, forest and urban environments, contaminated with radionuclides from events such as radiation accidents, radiological incidents and former nuclear activities. It considers sampling strategies and programmes, which are relevant for both emergency and existing exposure situations. Practical advice is provided on the design and implementation of sampling programmes for soil and vegetation within the framework of environmental monitoring. Examples of best practice on the formulation of optimized sampling strategies for different exposure situations are given based on the experience and lessons learned from implementation of past and existing programmes.

Radiological Monitoring of the Environment documents the proceedings of a symposium organized by The Central Electricity Generating Board in association with The Joint Health Physics Committee, held at Berkeley, Gloucestershire, on 3-4 October 1963. Environmental monitoring in its different aspects is of interest to most health physicists, and in particular to those of the Generating Board in relation to nuclear power stations and nuclear laboratories. The symposium served the dual purpose of disseminating information on a subject of importance, and fulfilling one of the objectives of the Joint Health Physics Committee by bringing together people working in various fields. This volume is divided into two parts, following the way in which the symposium was arranged. The first part of the volume contains the papers and the second part consists of the transactions of the meeting at Berkeley. The papers presented cover topics such as radioactivity in agricultural products; the monitoring of artificial radioactivity in waters round the British Isles; the monitoring of uranium and plutonium dust hazards; radiological control in university laboratories; and environmental surveys around research reactors.

The purpose of this book is to present a state of art summary of current knowledge of methods of assessment of radionuclides in the terrestrial and marine environments. It cover the traditional methods of radioactivity measurements such as radiometrics techniques, but also recent developments in the mass spectrometry sector. The book starts with a short preface introducing the subject of the book, summarising content and philosophy of the book, as well as the most important historical achievements. The scientific topics are introduced by description of sampling methods, optimisation of sampling sites and sampling frequency. The recent developments in radiochemical separation methods using chromatography resins for the treatment of actinides, transuranics and other groups of radioelements are also described. No other book is available covering all aspects of environmental radioactivity measurements, although remarkable progress has been made in detection techniques over the last ten years. At present the new methods enable to carry out investigations which were not possible before, either because of lack of sensitivity or because of the fact that they required too large samples.

This report presents the results of the marine environmental radioactivity monitoring surveys of intertidal and underwater areas around nuclear submarine berths which were carried out by Dera Radiation Protection Service (DRPS) during 1999. Also included are the results of smaller studies coordinated by DRPS. It is concluded that existing discharge arrangements are providing effective control over environmental levels of radioactivity and that there has been no radiological hazard to any members of the public.

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