

# Standard Guide for Development of Ground-Water Monitoring Wells in Granular Aquifers<sup>1</sup>

This standard is issued under the fixed designation D 5521; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscripted epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or approval.

## 1. Scope

1.1 This guide covers the development of screened wells installed for the purpose of obtaining representative ground-water information and water quality samples from granular aquifers, though the methods described herein could also be applied to wells used for other purposes. Other well-development methods that are used exclusively in open-borehole bedrock wells are not described in this guide.

1.2 The applications and limitations of the methods described in this guide are based on the assumption that the primary objective of the monitoring wells to which the methods are applied is to obtain representative water quality samples from aquifers. Screened monitoring wells developed using the methods described in this guide should yield relatively sediment-free samples from granular aquifer materials, ranging from gravels to silty sands. While many monitoring wells are considered “small-diameter” wells (that is, less than four inches in inside diameter), some of the techniques described in this guide will be more easily applied to large-diameter wells (that is, four-inches or greater in inside diameter).

1.3 The values stated in inch-pound units are to be regarded as standard. All other units in parentheses are provided for information only.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This guide offers an organized collection of information or a series of options and does not recommend a specific course of action. This document cannot replace education or experience and should be used in conjunction with professional judgment. Not all aspects of this guide may be applicable in all circumstances. This ASTM standard is not intended to represent or replace the standard of care by which the adequacy of*

*a given professional service must be judged, nor should this document be applied without consideration of a project's many unique aspects. The word “Standard” in the title of this document means only that the document has been approved through the ASTM consensus process.*

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

- D 653 Terminology Relating to Soil, Rock, and Contained Fluids
- D 5088 Practice for Decontamination of Field Equipment Used at Nonradioactive Waste Sites
- D 5092 Practice for Design and Installation of Ground-Water Monitoring Wells in Aquifers

## 3. Terminology

### 3.1 Definitions:

3.1.1 Many of the terms discussed in this guide are contained in Terminology D 653. The reader should refer to this for definitions of selected terms.

### 3.2 Definitions of Terms Specific to This Standard:

3.2.1 *air entrapment*—trapping of air or other gas in pore spaces of the formation or filter pack during development with compressed air.

3.2.2 *air lift pump*—a device consisting of two pipes, with one (the air line) inside the other (the eductor pipe), used to withdraw water from a well. The lower ends of the pipes are submerged, and compressed air is delivered through the inner pipe to form a mixture of air and water. This mixture rises in the outer pipe to the surface because the specific gravity of this mixture is less than that of the water column.

3.2.3 *air line*—a small vertical air pipe used in air-lift pumping. It usually extends from the ground surface to near the submerged lower end of the eductor pipe. The length of the air line below the static water level is used in calculating the air pressure required to start air-lift pumping.

3.2.4 *annular seal*—material used to provide a seal between the borehole and the casing of a well. The annular seal should

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.21 on Ground Water and Nuclear Waste Investigations.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

# Astm Standard Guide D 5521

**David M. Nielsen, Gillian Nielsen**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

## **Astm Standard Guide D 5521:**

Practical Handbook of Environmental Site Characterization and Ground-Water Monitoring David M. Nielsen, 2005-09-28  
Published in 1991 the first edition of The Practical Handbook of Ground Water Monitoring quickly became the gold standard reference on the topic of ground water monitoring But as in all rapidly evolving fields regulations change technology advances methods improve and research reveals flaws in prior thinking As a consequence books t **Site Assessment and Remediation Handbook** Martin N. Sara, 2003-06-27 Completely revised and updated the Second Edition of Site Assessment and Remediation Handbook provides coverage of new procedures and technologies for an expanded range of site investigations With over 700 figures tables and flow charts the handbook is a comprehensive resource for engineers geologists and hydrologists conducting site investi **The Essential Handbook of Ground-Water Sampling** David M. Nielsen, Gillian Nielsen, 2006-11-27 Tremendous improvements in ground water sampling methodologies and analytical technologies have made it possible to collect and analyze truly representative samples to detect increasingly lower levels of contaminants now in the sub parts per billion range Though these new methods produce more accurate and precise data and are less expensive many *Annual Book of ASTM Standards* ASTM International, American Society for Testing and Materials, 2003 **Annual Book of ASTM Standards** American Society for Testing and Materials, 2007 **ASTM Standards on Environmental Sampling** American Society for Testing Materials, 1997 A complete reference of American Society for Testing and Materials standards on environmental sampling covering standards for sampling soil water particulate matter and vapors in workplaces wells laboratories and natural areas with guides for safe practices in areas such as construction chemical testing groundwater monitoring and air monitoring at waste management facilities Annotation copyright by Book News Inc Portland OR **Standardization News** American Society for Testing and Materials, 2002 **ASTM Standardization News** American Society for Testing and Materials, 1995 **The Handbook of Groundwater Engineering** John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO2 sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater The Professional Geologist, 2005 *Water Well Rehabilitation and Reconstruction* Georg Houben, Christoph Treskatis, 2007-01-08 Capitalize on the First All in One Guide to Monitoring Identifying and Solving Problems of Ageing Water Wells Water Well Rehabilitation and Reconstruction offers water resource professionals the first comprehensive guide to the mechanical chemical and microbiological ageing processes of water wells Filled with examples from Germany the Netherlands the United States the United Kingdom and Australia this landmark reference provides the

scientific background needed to understand well aging and perform effective rehabilitation reconstruction and monitoring You will find guidance on state of the art testing and maintenance methods as well as information on legal and environmental issues such as the transport application and disposal of chemicals Using SI and U S customary units throughout with a handy conversion table included Water Well Rehabilitation and Reconstruction enables you to Identify and quantify problems affecting well performance Select rehabilitation methods appropriate for specific problems Harness methods for replacement or closure of a well if rehabilitation fails Inside This Landmark Water Well Resource Introduction Elements of Well Hydraulics and Well Operation Chemical Ageing Process Mechanical Causes of Well Ageing Identification of Ageing Processes and Performance Assessment of Wells and Well Rehabilitations Economics of Well Rehabilitation and Reconstruction Mechanical Rehabilitation Techniques Chemical Rehabilitation Techniques Repair Reconstruction and Decommissioning of Wells Practical Well Rehabilitation Prevention The Ten Dos and Don ts of Water Well Rehabilitation Appendices

**Water Quality & Treatment Handbook** American Water Works Association,1999-10-30 State of the art handbook of community water supplies The leading source of information on water quality water treatment and quality control for 60 years is now available in an up to the minute new edition The American Water Works Association s Water Quality Treatment Fifth Edition fully covers the field bringing you the expertise of 20 distinguished specialists who provide the latest information on everything from aeration and coagulation processes to chemical oxidation and water plant waste management At least 90% of the material in this new edition has been revised and updated Among the areas of special concern covered are Cutting edge membrane processes U S regulatory changes including new rulings on disinfection by products Current concerns with preventing cryptosporidium and e coli outbreaks Enhanced removal of total organic carbon Much much more

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*SV. Sound and Vibration* ,1989

**Durability and Structural Integrity of Airframes** International Committee on Aeronautical Fatigue. Symposium,Anders F. Blom,1993

*Standard Methods of Chemical Analysis* Seymour Z. Lewin,1966

*Standard Methods of Chemical Analysis* N. Howell Furman, Frank Johnson Welcher,1966

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