

**BIBLIOGRAPHY OF NATIONAL DRILLING COMPANY -
UNITED STATES GEOLOGICAL SURVEY REPORTS ON
THE WATER RESOURCES OF ABU DHABI EMIRATE,
1987-1997**



**U. S. Geological Survey Open-File Report 98-18
Prepared in co operation with the
National Drilling Company, Emirate of Abu Dhabi**



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THE WATER RESOURCES OF ABU DHABI EMIRATE,
1987-1997

By C. B. Hutchinson

U. S. Geological Survey

Open-File Report 98-18

Prepared for the
National Drilling Company
Emirate of Abu Dhabi
United Arab Emirates

Al Ain
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GEOLOGICAL SURVEY REPORTS ON THE WATER RESOURCES OF ABU DHABI
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ABSTRACT

A Ground-Water Research Project was conducted jointly between 1988 and 1997 by the National Drilling Company of Abu Dhabi and United States Geological Survey. This bibliography provides reference lists of 176 report titles released in 1987, prior to the start of the Project, and during the first 10 years of Project activity. The publications are indexed alphabetically by senior author, chronological order, and publication medium. National Drilling Company reports are also categorized and listed by report sequence, and a list is provided for 21 Arabic language translations of reports first written in the English language.

INTRODUCTION

Abu Dhabi Emirate encompasses an area of 59,200 square kilometers and is the largest of seven Emirates that form the United Arab Emirates, a country of about 71,000 square kilometers on the coast of the Arabian Peninsula south of the Arabian Gulf (fig. 1). To assist in planning for the development of Abu Dhabi, a Ground-Water Research Project (GWRP) was established in 1988 to evaluate the ground-water resources of the Emirate. The Project was conducted by the National Drilling Company (NDC) of Abu Dhabi and the United States Geological Survey (USGS).

This bibliography provides reference lists of GWRP report titles released between 1987 (prior to the start of the cooperative project) and December 1997. The publications are indexed alphabetically by senior author, chronological order, and publication medium. NDC reports are also categorized and listed by report sequence, and a list is provided for Arabic language translations of reports first written in the English language.

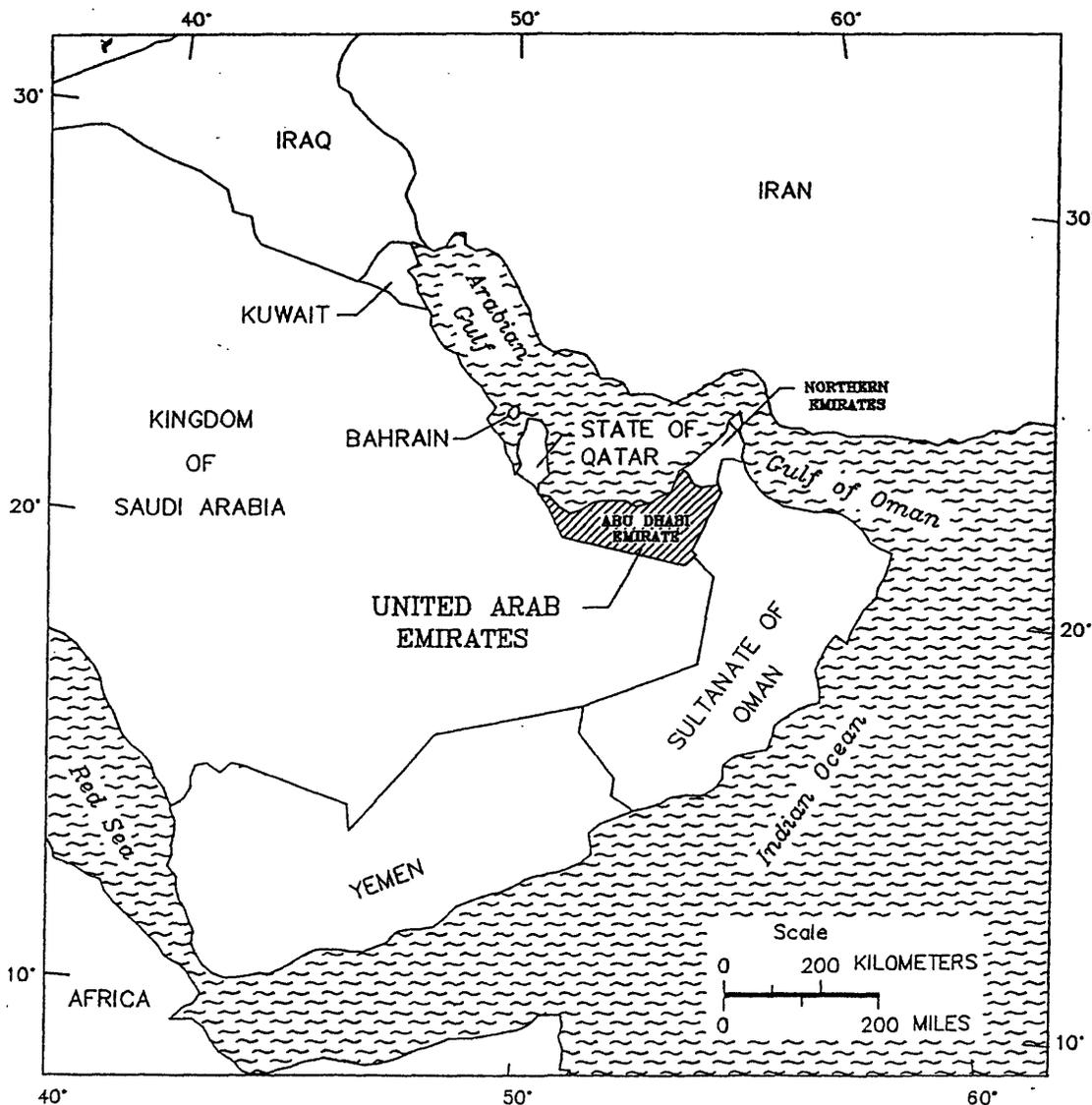


Figure 1. Location of Abu Dhabi Emirate.

REVIEW PROCESS

GWRP reports receive several in-house reviews to check technical content and provide quality control before they are released to NDC. Figure 2 shows the generalized review procedures and time for a typical 50-page report. Most reports follow these procedures, however, there are some exceptions. For example, NDC reports do not go to the USGS for approval.

The average 50-page report with a well-written first draft takes about 120 days to process. Shorter reports, such as fact sheets, take less time. Longer reports and very rough drafts may take up to 9 months to process. A tracking sheet is used to verify the review process and timeframe of most reports produced after 1993.

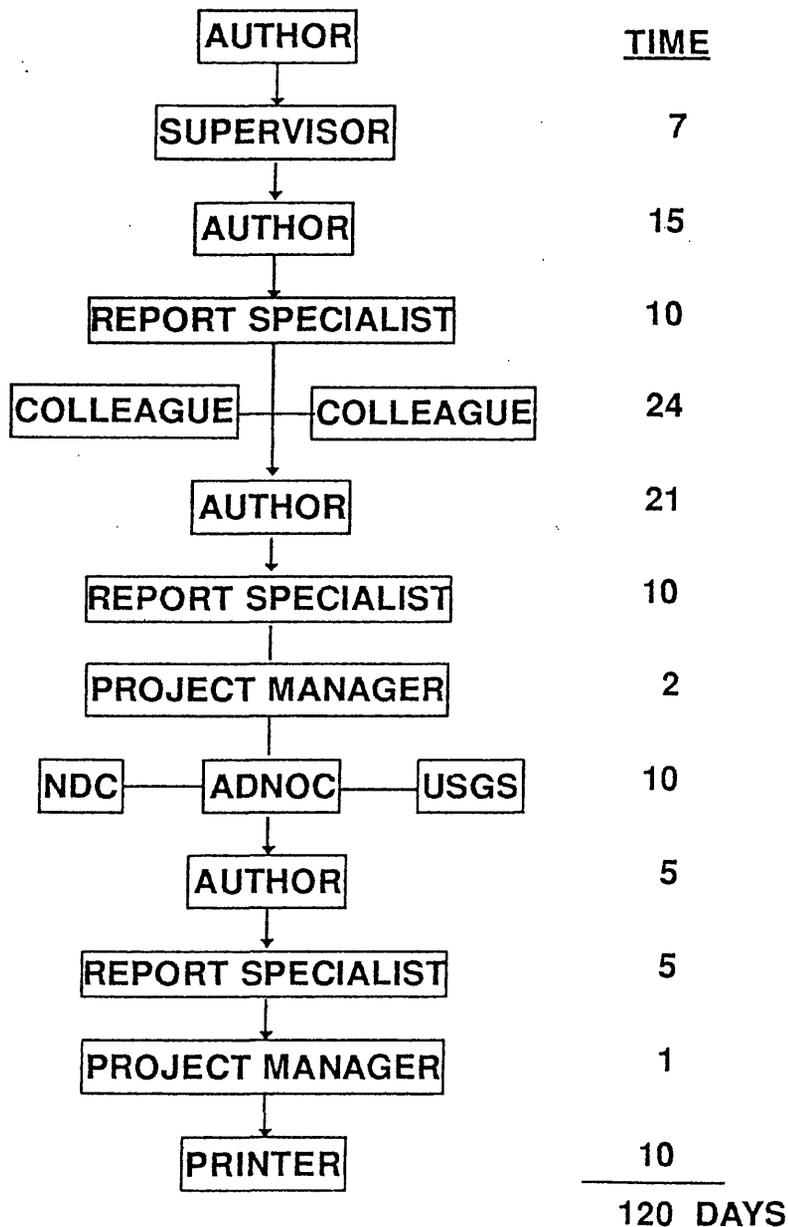


Figure 2. General steps in report processing.

CLASSIFICATION OF REPORTS

Reports produced or contracted by the GWRP fall into five main categories as follows:

USGS Administrative Reports -- These reports are authored by USGS hydrologists, receive at least two colleague reviews, and are approved for release to NDC by the Director of the USGS. Because these reports are administrative, they are not considered to be published reports and can only be released by NDC with joint approval of the USGS. These reports have been cited in NDC reports as "U.S. Geological Survey Administrative Report prepared for the National Drilling Company, Abu Dhabi."

Conference abstracts and papers -- These reports are authored by USGS and NDC employees, receive at least two colleague reviews, and are approved by the manager of the Ground-Water Research Project. Abstracts and papers by USGS authors receive approval for publication by the Director of the USGS and the Chairman of NDC. Those by NDC authors receive approval for publication by the Chairman of NDC.

Journal articles -- These reports are authored by GWRP employees and by scientists of the USGS and other agencies that have collaborated with the GWRP on the report. Generally, these reports are approved by NDC or USGS and receive external review by the journal's scientific committee before being accepted for publication.

Consultants' reports -- These reports are generally short reports from consulting firms that were contracted by the GWRP. Most of the consultants' reports pertain to interpretation of geophysical logging in GWRP test boreholes. In general, these firms submitted a draft report to the GWRP for approval. The final report contains revisions recommended by the Project Manager.

NDC reports -- NDC reports are generally written by NDC employees and reviewed and revised by USGS hydrologists. NDC reports fall into broad categories of administrative reports, technical reports, data reports, map series, and fact sheets. Prior to 1994, all NDC reports were administrative, which implied that they were written for use by the management of NDC. After 1994, the classification changed. Technical reports contain hydrologic interpretations and receive technical peer review by scientist colleagues. Data reports present uninterpreted hydrologic data and may not receive colleague review. Map series are usually a single sheet portraying mapped information. Fact sheets are informative short reports, one to four pages in length, written for the lay reader and generally summarizing one aspect of the GWRP.

AVAILABILITY OF REPORTS

U.S. Geological Survey and National Drilling Company reports have restricted distribution. Conference papers, journal articles, and fact sheets are available to the public. Copies of all reports in the bibliography except consultants' reports are on file at National Drilling Company offices in Abu Dhabi and Al Ain and at the Abu Dhabi National Oil Company headquarters. Copies were also provided to the Chief, International Water Resources Program, U.S. Geological Survey, Reston, Virginia. Reports are written in English unless it is specified that they are written in Arabic.

INDEX BY ALPHABETICAL ORDER

A total of 176 reports were produced by the Ground-Water Research Project between 1987 and 1997, including 155 in the English language and 21 in the Arabic language. The reports are categorized in alphabetical order and by language in the following bibliographical listings.

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CHRONOLOGICAL INDEX

During the early years of the GWRP, emphasis was placed on well drilling and data collection. In later years, more emphasis was placed on scientific evaluation and interpretation of the data. Therefore, more reports were produced in the second half of the 10-year Project as shown in figure 3 and the following chronological listing of reports.

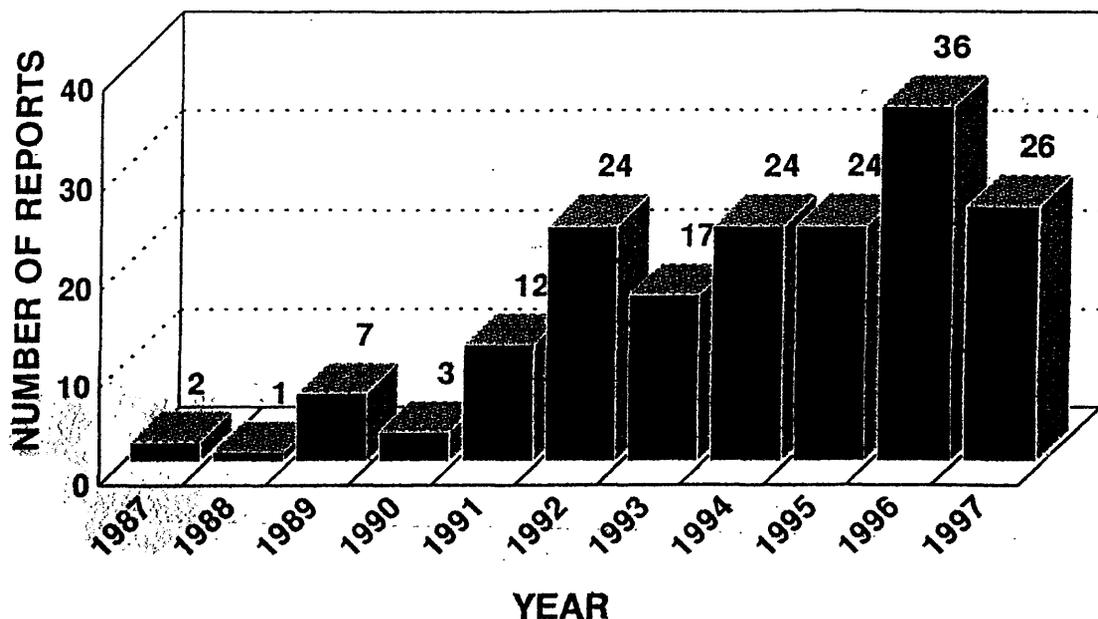


Figure 3. Production of Ground-Water Research Project reports, 1987-1997.

1987

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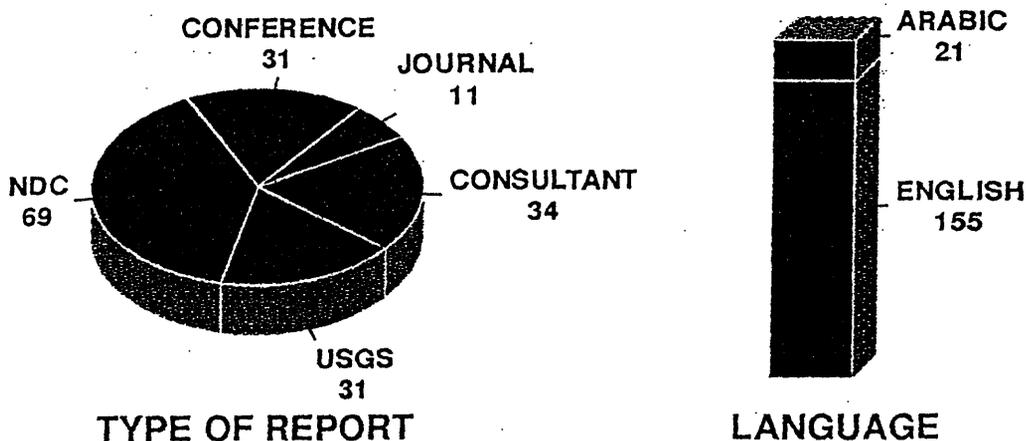


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