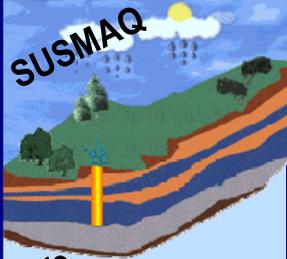




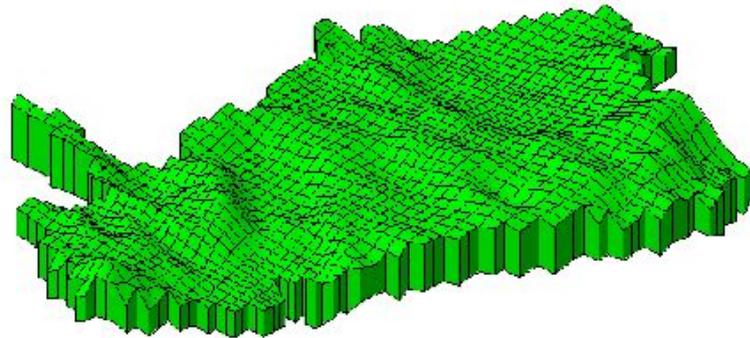
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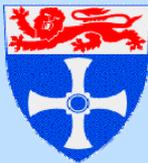


Conceptual, Steady-State and Transient-State Models of the Eocene Aquifer in the North-eastern Aquifer Basin.



Sustainable Management of the West Bank and Gaza Aquifers

UNIVERSITY OF
NEWCASTLE



NERC British
Geological Survey



Department for
International
Development

DFID

Final Report
SUSMAQ-MOD # 50 V 0.1

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September 2004

<p>Disclaimer</p> <p>This report is an output of the Hydrogeology and Flow Modelling Study, which is part of the SUSMAQ project.</p> <p>The findings, interpretations and conclusions expressed are those of the authors (the team) and should not be attributed to other collaborators on the SUSMAQ project.</p> <p>The project does not guarantee the accuracy of the data included in this publication. Boundaries, colours, denominations and other information shown in maps, figures, tables and the text does not imply any judgment on legal status of territory or the endorsement of boundaries. The typescript of this report has not been prepared in accordance with procedures appropriate to formal printed texts, and the partners and funding agency accept no responsibility for errors.</p>	<p>Contact Details</p> <p>Professor Enda O’Connell Project Director University of Newcastle upon Tyne Tel: 0191 222 6405 Fax: 0191 222 6669 Email: P.E.O’Connell@ncl.ac.uk</p> <p>Engineer Fadle Kawash Deputy Chairman Palestinian Water Authority Ramallah, Palestine Tel:02 295 9022 Fax 02 2981341 Email: fkawash@pwa-pna.org</p> <p>Dr. Amjad Aliewi Operations and Technical Manager Team Leader, Hydrogeology and Flow Modelling Sunrise Building Al-Irsal Road Al-Bireh/Ramallah, Palestine Tel. 02 298 89 40 Fax. 02 298 89 41 e-mail: a.s.aliewi@susmaq.org</p>
<p>The SUSMAQ Project</p> <p>The aim of the project is to increase understanding of the sustainable yield of the West Bank and Gaza aquifers under a range of future economic, demographic and land use scenarios, and evaluate alternative groundwater management options. The project is interdisciplinary, bringing together hydrogeologists and groundwater modellers with economists and policy experts. In this way, hydrogeological understanding can inform, and be informed by, insights from the social sciences. The results of the study will provide support to decision-making at all levels in relation to the sustainable yield of the West Bank and Gaza aquifers.</p> <p>The project runs from November 1999 to October 2004, and is a partnership between the Palestinian Water Authority, University of Newcastle and the British Geological Survey. The project is funded by the United Kingdom’s Department for International Development (DFID).</p>	<p>The Hydrogeology and Flow Modelling is part of the SUSMAQ project.</p> <p>The Modelling study focuses on the geology and hydrogeology of the Eocene Aquifer of NEAB, its inflows (recharge) and outflows (spring and well abstractions). The conceptual and steady-state models are followed by the transient model, using the GMS software modelling code.</p> <p>This report aims at developing conceptual steady-state and transient-state models of the Eocene.</p>
<p>Bibliographical Reference</p> <p>Conceptual, Steady-State and Transient-State Models of the Eocene Aquifer in the North-eastern Aquifer Basin. Report No.: SUSMAQ -MOD #50V0.1. Sustainable Management for the West Bank and Gaza Aquifers, Palestinian Water Authority (Palestine) and University of Newcastle upon Tyne (UK).</p> <p>Authors <i>PWA/Water Resources and Planning Directorate:</i> Eng. Deeb Abdul Ghafour Eng. Khalil Saleh, <i>PWA/SUSMAQ:</i> Hydrogeologist Abbas Kalbouneh <i>Newcastle University/SUSMAQ:</i> Dr. Amjad Aliewi</p>	<p>Feedback</p> <p>The SUSMAQ and PWA teams will appreciate any feedback on this report. Feedback should be sent to the above contacts.</p>

Table of Contents

PART I: STEADY-STATE MODEL

FEEDBACK.....	1
PART I: STEADY-STATE MODEL.....	3
1. 1 INTRODUCTION	4
1.2 BACKGROUND AND PREVIOUS STUDIES	5
1.3 OBJECTIVES.....	6
1.4 GEOGRAPHICAL LOCATION.....	6
1.5 IMPORTANCE OF THE EOCENE AQUIFER FOR PALESTINIAN WATER USE	6
1.1 IMPORTANCE OF THIS MODELLING STUDY	8
2. CONCEPTUAL MODEL OF THE EOCENE AQUIFER	9
2.1 DEFINITION AND STEPS OF CONCEPTUAL MODEL	9
2.2 AQUIFER GEOMETRY	10
2.2.1 <i>The main body</i>	10
2.2.2 <i>Southern tip</i>	10
2.3 GEOLOGICAL SETTINGS.....	12
2.4 CROSS SECTIONS	16
2.5 STRUCTURAL GEOLOGY (FOLDING AND FAULTING).....	16
2.5.1 <i>Folding</i>	16
2.5.2 <i>Faulting</i>	21
2.6 BOUNDARY CONDITIONS	21
2.7 HYDROSTRATIGRAPHICAL UNITS.....	24
2.7.1 <i>Aquifers</i>	24
2.7.2 <i>Senonian aquiclude</i>	26
2.8 TRANSMISSIVITY AND HYDRAULIC CONDUCTIVITY	26
2.9 SPECIFIC YIELD.....	27
2.10 CONCEPTUAL STEADY-STATE WATER BUDGET	27
2.10.1 <i>Recharge from rainfall</i>	27
2.10.2 <i>Discharge estimation</i>	29
2.10.3 <i>Well abstractions</i>	31
2.10.4 <i>Lateral flow</i>	31
2.11 GENERAL DIRECTION OF GROUNDWATER FLOW	31
3. STEADY-STATE MODEL OF THE EOCENE AQUIFER.....	34
3. STEADY-STATE MODEL OF THE EOCENE AQUIFER.....	35
3.1 METHODOLOGY.....	35
3.2 MODEL CODE AND DOMAIN	35
3.2.1 <i>Model code</i>	35
3.2.2 <i>Model domain</i>	35
3.3 MODEL STRATIGRAPHY	36
3.4 HORIZONTAL AND VERTICAL DESCRITIZATION	36
3.5 MODEL CALIBRATION.....	36
3.5.1 <i>Calibration targets</i>	36
3.5.2 <i>Steady-state calibration</i>	37
3.5.3 <i>Simulated water budget</i>	42
3.5.4 <i>Limitation of model analysis</i>	45
4. TRANSIENT CALIBRATION STRATEGY	46
4.1 SETTING OF PARAMETERS.....	46
4.2 RECOMMENDED CALIBRATION PERIOD	46
4.3 OBSERVATION WELLS.....	48
4.4 RECOMMENDED STRESS PERIODS AND TIME STEPS	48
4.5 FUTURE MANAGEMENT SCENARIOS	48
5. CONCLUSIONS AND RECOMMENDATIONS.....	49

Sustainable Management of West Bank & Gaza Aquifers (SUSMAQ)

11.1	CONCLUSIONS	49
11.2	RECOMMENDATIONS	49
PART II: TRANSIENT-STATE MODEL		51
6. SETTING UP OF TRANSIENT MODEL		52
6.1 TARGETS OF TRANSIENT CALIBRATION.....		52
6.2 SIMULATION PERIOD		52
6.7	OBSERVATION WELLS.....	58
7. RESULTS OF TRANSIENT CALIBRATION.....		61
8. SENSITIVITY ANALYSIS		67
9. FUTURE MANAGEMENT SCENARIOS AND SUSTAINABLE YIELD		70
9.2 SUSTAINABLE YIELD ASSESSMENT		78
DURING THE PROCESS OF CONCEPTUAL AND NUMERICAL MODEL DEVELOPMENT FOR THE EOCENE AQUIFER, SEVERAL DATA GAPS WERE IDENTIFIED. THESE DATA GAPS MAY HAVE A SIGNIFICANT EFFECT ON UNDERSTANDING THE GROUNDWATER REGIME OF THE EOCENE AQUIFER, AND THEREFORE AFFECT THE OUTCOME OF THE MODEL. NONE OF THESE DATA GAPS ARE SIGNIFICANT ENOUGH TO EXCLUDE GROUNDWATER MODELING AT THIS TIME, AND IT IS RECOMMENDED THAT MODELING PROCEED WITH THE EXISTING DATA.....		
78		
ONE OF THE BENEFITS OF GROUNDWATER MODELING IS THE PROCESS OF SENSITIVITY ANALYSIS, WHERE THE UNCERTAINTY PRODUCED BY A PARTICULAR DATA GAP CAN BE QUANTIFIED. IT IS THEREFORE RECOMMENDED THAT THE LIST OF DATA GAPS AND RECOMMENDED ACTIONS BE RE-EVALUATED AFTER MODEL CONSTRUCTION.....		
78		
11. CONCLUSIONS AND RECOMMENDATIONS.....		80
11.1	CONCLUSIONS	80
11.2	RECOMMENDATIONS	81
REFERENCES		82
APPENDIX		83
TABLE (1): AVERAGE ANNUAL SPRING DISCHARGE (ACCORDING TO ISRAELI CELLS)		84
TABLE (2): AVERAGE ANNUAL PALESTINIAN SPRING DISCHARGE (M ³ /YR.)		85
TABLE (3): AVERAGE ANNUAL ABSTRACTION OF EOCENE WELLS (M ³ /YR.)		87
TABLE (4): AVERAGE ANNUAL DISCHARGE (M ³ /YR.).....		90
TABLE (5): AVERAGE ANNUAL WATER LEVEL OF EOCENE AQUIFER OF NORTH-EASTERN BASIN		91
TABLE (6): EOCENE WELL LITHOLOGY		84
TABLE (7): WELL PUMPAGE, ACCORDING TO ISRAELI CELLS		84
TABLE (8): AVERAGE ANNUAL ABSTRACTION.....		85
TABLE (9): BASE ELEVATION OF EOCENE AQUIFER		111
TABLE (10): AVERAGE ANNUAL DISCHARGE OF PALESTINIAN SPRINGS (M ³)		115
TABLE (11): TOTAL ABSTRACTION FROM EOCENE (MCM/YR.)		142
TABLE (12): WELL PUMPAGE		143
TABLE (13): ABSTRACTION (MCM/YR.)		144

List of Figures

- Figure 1.1: Geological Map of the North-Eastern Basin Boundary
- Figure 2.1: Structure Contour map and base of Eocene Aquifer
- Figure 2.2: Lithological Wells and Cross Sections in the North-eastern Basin
- Figure 2.3: North-Eastern Cross Section
- Figure 2.4: North-Eastern Cross Section
- Figure 2.5: Eocene Aquifer Geometry
- Figure 2.6: Structural Geology of the North-Eastern Basin Boundary
- Figure 2.7: Expected Boundary of the Eocene Aquifer
- Figure 2.8: Stratigraphic Section of the Northeastern Basin
- Figure 2.9: Initial Estimate of Recharge Zones
- Figure 2.10: Major Spring Locations in the Eocene Aquifer Boundary
- Figure 2.11: Well Locations in the Eocene Aquifer Boundary
- Figure 2.12: Measured Water Level (1985-1990) in Eocene Aquifer
- Figure 3.1: Fluctuation of Water Level (1985-1990)
- Figure 3.2: Spatial Distribution of Simulated Hydraulic Conductivity
- Figure 3.3: Spatial Distribution of Simulated Hydraulic Transmissivity
- Figure 3.4: Computed vs. Observed Values
- Figure 3.5: Simulated Water Table from Steady-state Calibration (Mean Sea Level)
- Figure 4.1: Initial Estimate of Specific Yield Zones



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