

Proposing Four Sites for Drilling Water Supply Wells for Nablus Municipality



Prepared by:



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Contents

1.0 Introduction and Objective	5
2.0 The Current Water Resources Situation	5
3.0 Geology and Hydrstrtigraphy of the Nablus Area	9
4.0 Study Area and Existing wells in the Region	14
5.0 Geological and Hydrogeological Setting for the Study Area	18
6.0 The Proposed Sites and Wells Design of New Madama, Burin and Sabastia Production Wells	22
7.0 Conclusions and Recommendations.....	27
8.0 Annex	28

List of Tables

Table 1: Wells and Springs of Nablus City	6
Table 2: Housing and Consumer Categories for Water Demand Forecast	7
Table 3: Basic Hypothesis for Water Demand Forecat	7
Table 4: Water Demand Projections for Nablus	7
Table 5: Required Additional Potable Water Production (Water Balance)	8
Table 6: Data on the Existing Wells in the Study Area	14
Table 7: Transmissivity and Specific Capacity of the Existing Wells	14

List of Figures

Figure 1: Wells and Springs of Nablus City	6
Figure 2: Geological Map of Nablus Area	9
Figure 3: Schematic Geological Cross Section for Nablus Area	10
Figure 4: Structural Map of Nablus Area	13
Figure 5: Topographic Map for the Southern Part of the Study Area	15
Figure 6: Topographic Map for the Western Part of the Study Area	16
Figure 7: General Location Map and Location of Existing Wells.....	17
Figure 8: Generalized Geological Map	19
Figure 9: Local Geological Map for the Southern Part of the Study Area	20
Figure 10: Local Geological Map for the Western Part of the Study Area	21
Figure 11: Fracture Trace and Lineament Map of the Greater Nablus Area: Burin Imatin-Jneid Sheet	Annex

Figure 12: Cross Sections in the Southern Part of the Study Area.....	Annex
Figure 13: Cross Sections in the Western Part of the Study Area.....	Annex
Figure 14: Section A'-A in the Study Area	Annex
Figure 15: Section B-B' in the Study Area	Annex
Figure 16: Section C-C' in the Study Area	Annex
Figure 17: Section D-D' in the Study Area	Annex
Figure 18: Section E-E' in the Study Area	Annex
Figure 20: Section F-F' in the Study Area	Annex
Figure 12: Proposed Wells locations	26
Figure 21: Basic Well Construction Details of Madama Production Well Tapping the Lower Aquifer	Annex
Figure 22: Basic Well Construction Details of Burin Production Well Tapping the Upper Aquifer	Annex
Figure 23: Basic Well Construction Details of Sabastia No.1 Production Well Tapping the Lower Aquifer	Annex
Figure 24: Basic Well Construction Details of Sabastia No.2 Production Well Tapping the Upper Aquifer	Annex

Abbreviations

Km	kilometer
LPCD	Liter per Capita per Day
m ASL	meter Above Sea Level
m BSL	meter Blow Sea Level
mbgl	meter below ground level
m ³ /hr	cubic meter per hour
m ³ /hr/m	cubic meter per hour per meter
Mcm/yr	million cubic meters per year
MW	Monitoring Well
PW	Production Well
S.W.L	Static Water Level
D.W.L	Dynamic Water Level
WHO	Water Health Organisation
NM	Nablus Municipality
UfW	Unaccounted for Water
PWA	Palestinian Water Authority

1. Introduction and Objective

Most of Palestinian communities are still suffering from severe shortages in domestic water supplies. The problem is obvious in the northern parts of the West Bank where the domestic supply in these communities ranges between 31 LPCD and 80 LPCD which is considered very low when compared with the WHO standards (150 LPCD).

In Nablus Governorate, the total available water for domestic purpose is about 7 Mcm/yr, while the needed demand is around 14 Mcm/yr with a general water deficit of 7 Mcm/yr. The severe lack of natural water resources in Nablus City is indisputable. The current city demands for various usages are met essentially by limited water quantity from several springs of Al Qaryon, Ras Al Ain, Ein Al-Assal, Ein Dafana, and New Building spring, in addition to several production wells of Audala, Deir Sharaf 2a, Al Far'a, and Al-Badan wells. Therefore, there is an urgent need to increase the water supply for this city by reliable quantity of fresh water; this can be accomplished by drilling new water production wells in the Greater Nablus City Area.

This report aims to identify four sites for drilling new production wells in the Greater Nablus City Area.



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