

*L'étude de Faisabilité Pour Le Développement des Ressources En Eau
Par Les Barrages Moyens Dans Le Milieu Rurale Au
Royaume Maroc
Rapport Final
Volume VII Livre de Donnees
Livre de Donnees SO
Études des Sols*

***SO2 Reconnaissance Préliminaire du Sol pour
N'Fifikh***

Etude Preliminaire su Sol Entre le Site du Barrage N’Fifikh Propose et la Zone N’Fifikh Amont

Profile No. 1 Location: See on the Map

- (1) Position: Alluvial soil
- (2) Land Form: Flat 0 – 2%
- (3) Land Use: Grape Tree
- (4) Groundwater Level: 4.5 - 5 m
- (5) Soil Classification: Sols peu evolues D’apport Alluvial
- (6) Land Suitability: Class I
- (7) Description of Soil Profile

Horizon	Depth (cm)	Description
A	0-22	7.5YR 4/4 moist, loam to silty loam, no mottle and concretion, subangular blocky with mmoderately strong and medium size (5-10cm), clear and smooth boundary
C1	22-44	7.5YR 3/4 moist, clay loam, no mottle and concretion, subangular blocky with moderately strong and medium size (5-10cm), clear and smooth boundary
C2	44 -	7.5YR 3/4 moist, clay loam, no mottle and concretion, subangular blocky with moderately strong and medium size (5-10cm))



Photos
Profile No.1
(Left)
View of Location
(Right)
Soil Profile

Profile No. 2 Location:

- (1) Position: Alluvial soil
- (2) Land Form: Flat (Valley)
- (3) Land Use: Vegetable, irrigated area
- (4) Groundwater Level: 6 – 7m
- (5) Soil Classification: Sols peu evolues D'apport Alluvial
- (6) Land Suitability: Class I
- (7) Description of Soil Profile

Layer	Depth (cm)	Description
A1	0 – 23	10 YR 3/4 moist, clay loam, no mottle and concretion, sabangular blocky with weak structure and medium size (5-10 cm), clear and smooth boundary
C1	23 – 56	10 YR 4/4 moist, silty clay loam, no mottle and concretion, sabangular blocky with moderately strong structure and medium size (5-10 cm), gradual and smooth boundary
C2	56 – 72	10 YR 4/4 moist, silty loam, no mottle and concretion, sabangular blocky with weak structure and medium size (5-10 cm), diffusel and smooth boundary
C3	- 72	10 YR 4/4.5 moist, clay loam, no mottle and concretion, sabangular blocky with weak structure and fine size (less than 5 cm)



Photos
Profile No.2
(Left)
View of Location
(Right)
Soil Profile

Profile No. 3

Location:

- (1) Position: Colluvial soil, terrace
- (2) Land Form: gentle slope (2 – 5%)
- (3) Land Use: Wheat cultivation
- (4) Groundwater Level: no data
- (5) Soil Classification: Vertisols
- (6) Land Suitability: Class IV
- (7) Description of Soil Profile

Layer	Depth (cm)	Description
Ap	0 – 30	10 YR 2/2 moist, silty clay loam, few mottle with fine size and prominent contrast, no concretion, granular with weak structure and fine size (less than 10 cm), diffuse and broken boundary
C1	- 30	10 YR 2/2 moist, silty clay loam, many mottle (10RY 8/1) with fine size and prominent contrast, no concretion, Platy with strong structure and very coarse size (20 – 50 cm)



Photos
Profile No.3
(Left)
View of Location
(Right)
Soil Profile

Profile No. 4

Location:

- (1) Position: Alluvial soil
- (2) Land Form: Flat (0 – 2%)
- (3) Land Use: Wheat
- (4) Groundwater Level: 6.5 – 7m
- (5) Soil Classification: Sols peu evolues D'apport Alluvial
- (6) Land Suitability: Class I
- (7) Description of Soil Profile

Layer	Depth (cm)	Description
A1	0 – 28	10 YR 4/4 moist, clay loam, no mottle and concretion, subangular blocky with weak to moderately strong structure and fine size (less than 5 cm), clear and smooth boundary
C1	28 – 76	7.5 YR 4/4 moist, silty clay loam, no mottle and concretion, subangular blocky with moderate structure and fine size (± 5 cm), clear and wavy boundary
C2	- 76	7.5 YR 4/4 moist, silty loam, no mottle and concretion, subangular blocky with weak to moderately strong structure and fine size (± 5 cm)



Photos
Profile No.4
(Left)
View of Location
(Right)
Soil Profile

Profile No. 5

Location:

- (1) Position: Alluvial soil
- (2) Land Form: Flat (Valley)
- (3) Land Use: Vegetable
- (4) Groundwater Level: 6 m
- (5) Soil Classification: Sols peu evolues D'apport Alluvial
- (6) Land Suitability: Class II
- (7) Description of Soil Profile

Layer	Depth (cm)	Description
Ap	0 – 12	7.5 YR 3/3 moist, loa, , no mottle and concretion, subangular blocky with weak structure and fine size (\pm 5 cm), gradual and smooth boundary
C1	12 – 41	7.5 YR 4/4 moist, clay loam, no mottle and concretion, subangular blocky with moderately strong structure and medium size (5-10 cm), diffuse and smooth boundary
C2	- 41	7.5 YR 4/4 moist, clay loam, no mottle and concretion, subangular blocky with moderately strong to strong structure and medium size (5-10 cm)



Photos
Profile No.5
(Left)
View of Location
(Right)
Soil Profile

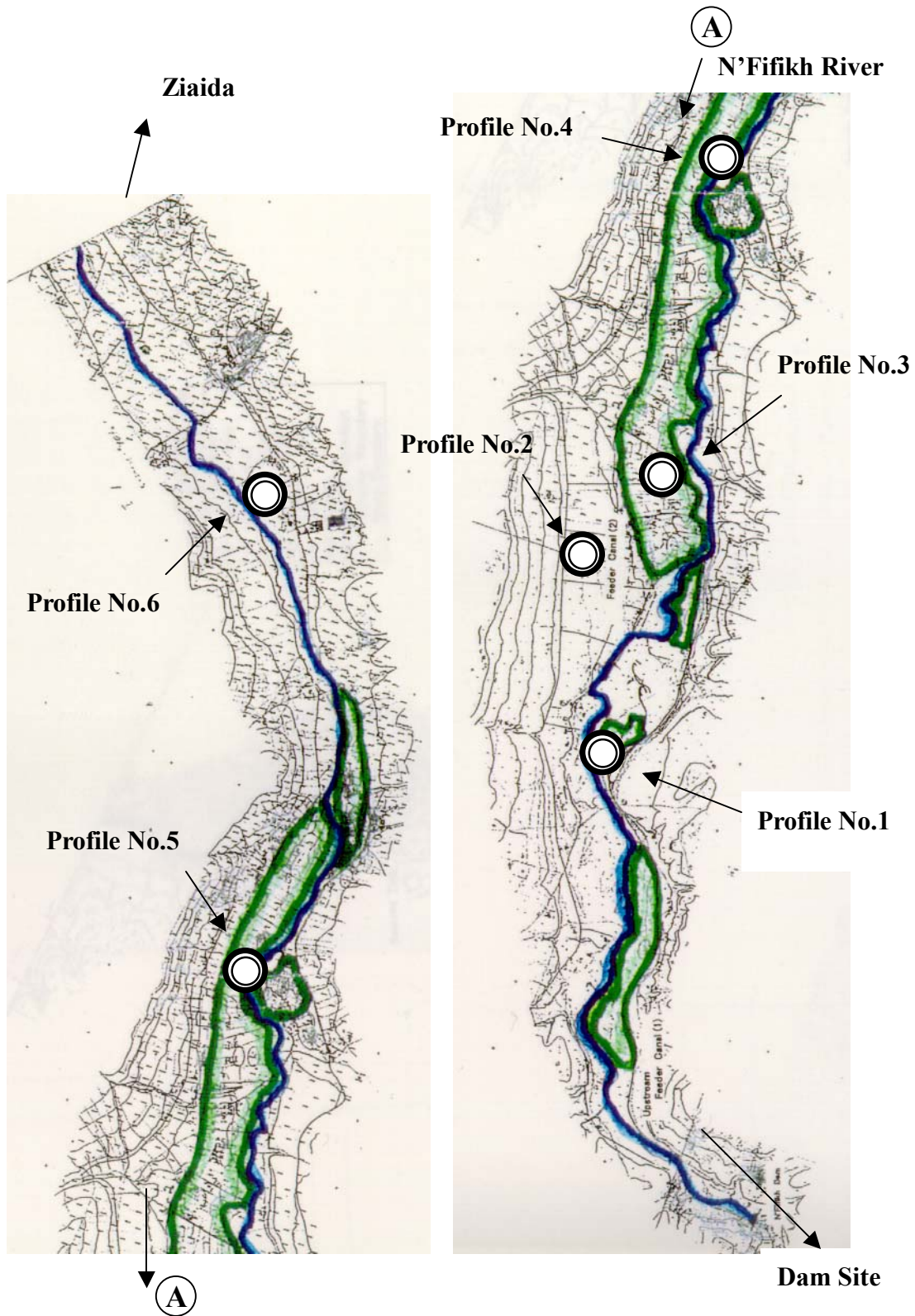
Profile No. 6 Location: Near Ziaida Village

- (1) Position: Alluvial soil
- (2) Land Form: Flat (0 – 2%)
- (3) Land Use: wheat
- (4) Groundwater Level: 8 m
- (5) Soil Classification: Sols peu evolues D’apport Alluvial
- (6) Land Suitability: Class I
- (7) Description of Soil Profile

Layer	Depth (cm)	Description
Ap	0 – 10	7.5 YR 4/4 moist, loam, no mottle and concretion, subangular blocky with weak to weak structure and fine size (less than 5 cm), clear and smooth boundary
	10 – 34	7.5 YR 4/4 moist, silty loam, no mottle and concretion, subangular blocky with moderately strong structure and fine size (less than 5 cm), gradual and smooth boundary
	34 – 58	7.5 YR 4/3 moist, silty loam, few mottle with fine size and faint contrast, no concretion, subangular blocky with moderately strong structure and fine size (less than 5 cm), diffuse and smooth boundary
	- 58	7.5 YR 4/3 moist, clay loam, no mottle and concretion, subangular blocky with strong structure and medium size (5-10 cm)



Photos
 Profile No.6
 (Left)
 View of Location
 (Right)
 Soil Profile



Localisation de l'étude préliminaire du sol de la zone N'Fifikh amont