

Republic of Cyprus

Ministry of Agriculture & Natural Resources

WATER DEVELOPMENT DEPARTMENT

# VASILIKOS – PENDASKINOS PROJECT

## VASILIKOS-PENDASKINOS PROJECT

The Vasilikos-Pendaskinos Project (VPP) is located in the southern part of Cyprus between Vasilikos and Pendaskinos rivers approx. 50 km south of Nicosia and some 40 km east of Limassol.

The basic objective of the Vasilikos-Pendaskinos Project is the development of the surface water resources of the region and their use for the agricultural development of the area as well as for the augmentation of the domestic water supply of other areas, particularly the Nicosia, Larnaca and Famagusta water supplies.

The main components of the project as it stands now, are:

- (a) Kalavastos Dam on Vasilikos river, having a capacity of 17 million cubic meters (MCM) of water,
- (b) Dhyptomamos Dam on Pendaskinos River, having a capacity of 15 MCM,
- (c) A diversion system to convey the excess flows of Maroni river to the Dhyptomamos Dam reservoir,
- (d) A conveyance and distribution system for irrigation from Kalavastos Dam comprising, main conveyor, break pressure tank, and pipeline network covering an area of about 765 hectares net (Vasilikos Irrigation Scheme),
- (e) A conveyance and distribution system for irrigation from Kalavastos Dam covering an area of about 215 hectares net in the area of Maroni village,
- (f) A conveyance and distribution system for irrigation from Dhyptomamos Dam covering an area of 295 hectares net (Pendaskinos Irrigation Scheme),
- (g) A conveyance system comprising main conveyor (common with that in item (d) above up to the break pressure tank), pumping station at Tokhni and balancing reservoir at Khirokitia to convey water from Kalavastos Dam to the Khirokitia Water Treatment Plant,
- (h) A water treatment plant, pumping station and reservoirs at Kornos for the water supply of Nicosia and
- (i) A conveyor from Skarinou to Lakatamia reservoirs Nicosia which was completed in Jan. 1982 and has been under operation since. This work which is known as Nicosia Water Supply Scheme Phase I, includes also the Dhyptomamos Pumping Station, the Stavrovouni Balancing Reservoir and a break pressure tank at Nissou.

A quantity of 8.95 MCM of water will be allocated per year for the irrigation of an area of 1275 ha, mainly citrus and vegetables, a further quantity of 7.00 MCM per year will be allocated for the augmentation of the domestic water supply of Nicosia, Larnaca and Famagusta several villages, refugee estates and tourist installations.

The agricultural development of the project will be mainly in 3 areas.

- (a) The Vasilikos area of 765 ha of land belonging to Kalavastos, Mari, Zyyi, Tokhni and Psematismenos,
- (b) The Pendaskinos area of 295 ha of land belonging to Ayios Theodoros and Skarinou and
- (c) The Maroni area of 215 ha of land belonging to the homonymous village.

Land consolidation has been carried out in three areas of the project.

- (a) Maroni for an area of 140 ha
- (b) Kalavastos-Tokhni for an area of 243 ha
- (c) Zyyi, Psematismenos-Maroni for an area of 120 ha.

The Agricultural Research Institute has set up an Agricultural Research Station in the project area to carry out research on varieties of plants to be cultivated and experiments on cultivation and irrigation method.

The land consolidation scheme includes a length of 30 km of farm roads. Agriculturists of the Agricultural Extension Services of the Department of Agriculture will be based at the VPP operation control centre in the project offices already built at Khirokitia Treatment Works.

In order to cover part of the foreign exchange component of the cost of the project, Government has secured three loans. One from the World Bank for an amount of \$ 11 million, a second for KD 2.5 million from the Kuwait Fund for Arab Economic Development and the third from the European Investment Bank of 8.3 million ECU's. The three loans are used for a parallel financing of the project, that is financing of separate components of the project, and are worth in total about 14.2 million Cyprus Pounds.

The foreign exchange component of the cost of Phase I was financed by a DM 10 million loan (=approx. £1.9 million) from Kreditanstalt Fur Wiederaufbau of West Germany who have also financed the construction of Lefkara Dam in the early 1970's. The overall project cost, including Phase I is estimated as about 27 million Cyprus Pounds.

PROJECT DATA

Financing

£ CYPRUS

GOVERNMENT OF CYPRUS .....	10,900,000
WORLD BANK .....	5,800,000
KUWAIT FUND .....	4,500,000
EUROPEAN INVESTMENT BANK .....	3,900,000
KREDITANSTALT FUR WEIDERAUBAU (Phase 1).....	1,900,000
	<hr/>
Total estimated cost (Jan. 84) .....	£27,000,000

Consulting Engineers

ROFE, KENNARD AND LAPWORTH WITH  
WALLACE EVANS + PTNS  
in association with C CHR IOANNIDES

LEMON & BLIZARD (Phase I)

Main Technical Data

Design allocation of water	TONS/YEAR
POTABLE .....	7,000,000
IRRIGATION .....	8,950,000

Dams Storage

TONS

KALAVASOS DAM .....	17,000,000
DHYPOTAMOS DAM .....	15,000,000

Treatment Works Capacity

TONS/DAY

KORNOS WATER TREATMENT WORKS .....	32,000
------------------------------------	--------

Net Irrigated Areas

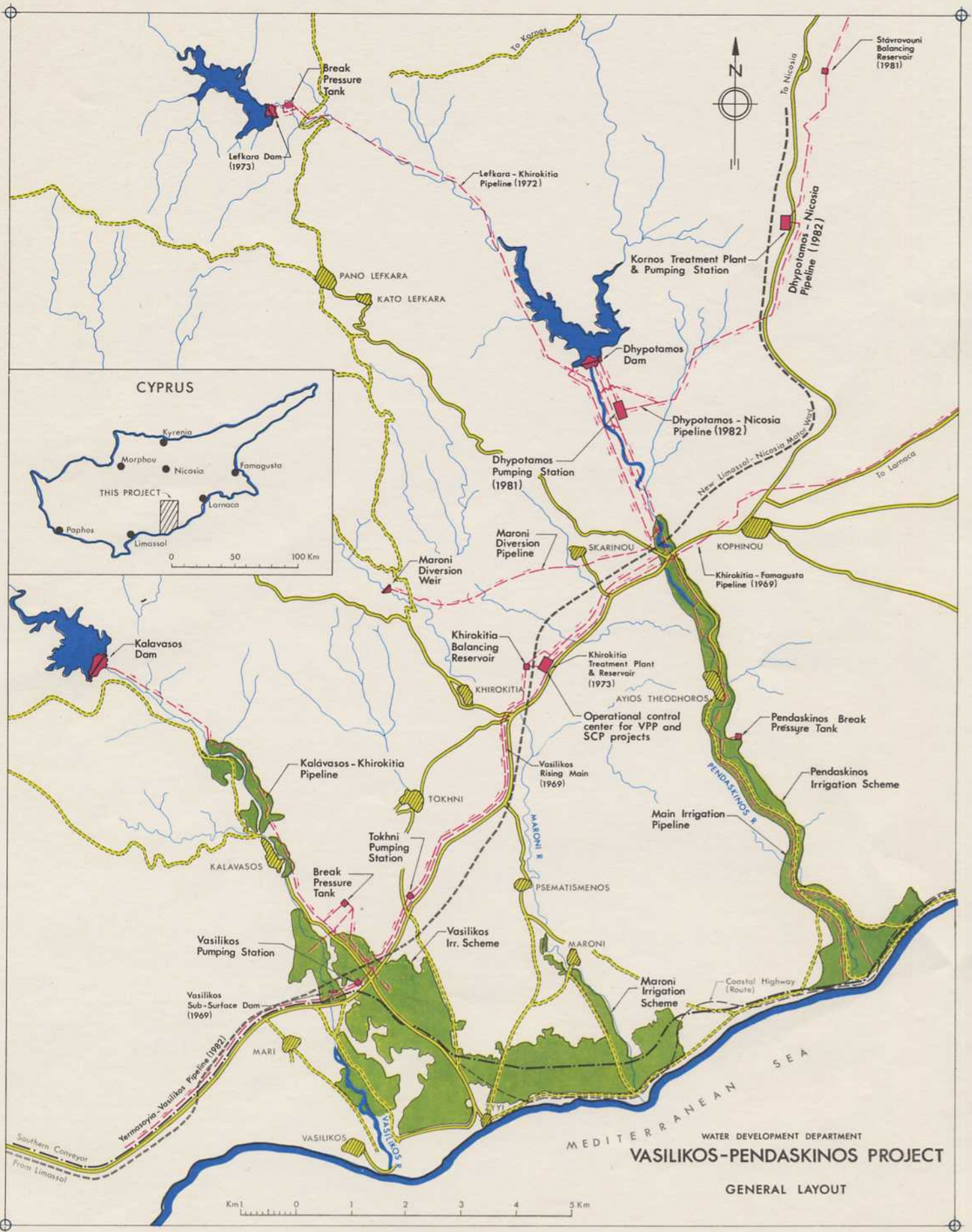
Ha

MARONI .....	215
PENDASKINOS.....	295
VASILIKOS .....	765
	<hr/>

Total .....	1275
-------------	------

Completions:

Nicosia Water Supply First Phase .....	Jan 82
Start impounding .....	Jan 85
Completion of main components .....	End 85
Final completion .....	1987



WATER DEVELOPMENT DEPARTMENT  
**VASILIKOS-PENDASKINOS PROJECT**

GENERAL LAYOUT