

### 3.2 The pilot plots parameters

The pilot plots parameters are presented in table 3.4

Data show, that investigations were conducted in different conditions: in laboratory or in situ on area of  $25\text{m}^2$  and on large irrigated fields and massifs with size from 100 to 12.000 ha. On the pilot plots irrigation network is represented by earthen canals with efficiency 0,6, and concrete coated canals or flumes with efficiency 0,9-0,96.

Collector-drainage network is represented by horizontal drainage with depth from 1,5 to 4,0m, specific length from 3-5 to 30-73 m/ha. Drain spacing fluctuates from 160 to 600m. Specific drain discharges are 0,05-1,0 l/sec.ha/year, and drainage outflow volume is 1480-16000  $\text{m}^3/\text{ha}$ . Water salinity in disposal system fluctuates from 0,8-2,0 to 4-15 g/l.

Only on one site, in Chimkent oblast (Kazakhstan), territory was drained by vertical drainage from 60 wells on area of 12.000ha. Capacity of vertical drainage wells fluctuated from 20 to 45l/sec, and drainage outflow (pumped water volume) was on average 2.300  $\text{m}^3/\text{ha}/\text{year}$ . Since pumped water salinity is not high (0,7-2,0 g/l), it is used for additional water supply. On above site there is horizontal drainage network with low specific length from 3 to 5 m/ha.