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2007/3/1:

| 2006/7/1:

(3).

(1).

(2)

(4)

(2)

:

(Turbidity)

NTU (Nephelometric Turbidity)

Electrical) (7)

{Suspended (Conductivity
(8) Sediments}

:

(Total Dissolved Solid)

(4) .

(Water Alkalinity)

(Total Hardness)

-

EDTA

-

(8).

(5)

Flame)

ASTM)

(9) (Photometry

(10) (D516-80

(6) .

(12).

(11)

:

(13)

{ Cr , Ni , Zn , Cu , Co , Cd }

(14).

:

.

. 0 4

. (15)

:

:

:

-1

(4).

\ 26.7
 . \ 18.2
 \ 26.3 3.0
 . \ 52 7.6
 (\ 1000) 6.4
 (20) 5)
 (16) (
 ()
 \ 213 7.8
 \ 19.5 ((1))
 .((1)) .(18.0)
 - : -2
 pH : 1140
 \ 7.3 2382
 7.7 . / 1000 (17)
 1240
 6.5 7.6
 (20) 8.5-
 (18) .
 .((2)) 4730
 : \ 29833
 \ 21). 1316
 .((1))
 \ 524 : -3
 (20) \ 1000
 845 . \ 1843
 \
 .(\ 3748) (19).

307 \ 366 .
 339 . \ 230
 \ 1180 \
 .((2)) .
 .((2))
 :
 (26) ()
 \ 0.16
 \ 0.12
 \ 0.4) \ 0.3
 (22) (
 \ 237
 \ 183
 373 \ 269 .
 240 \
 \ 283 \
 \ 6.9 (24) 1989
 (7) \ 200 ()
 0.3)
 .((2)) (\
 .((2))
 \ 0.08
 \ 0.15)
 ()
 0.10) (\ 0.11)
 (\
 (27)
 0.03 \ 0.01
 \ 0.5 .((2)) (25)
 \ 1.74
) \ 210
 \ 477 (26) (\ 250

{ }
(10)

(\ 3.7)

\ 175

\ 12300

.((2))

.(/ 275)

\ 0.7

\ 0.95

436

\ 4.0

\ 0.20

\ 0.65

(20) \ 1.0

.((2))

22.0

\ 3.0

(29)

\

\ 0.03

\ 2.30

\ 0.5

\ 0.40

0.50

\ 0.22

) \ 50

.((2))

(20)

:

(28)

.((2))

(30)

\ 380

\ 108

\ 193

\ 1347

(31).

\ 250

(20)

Cr , Ni , Cu].

. [Zn , Cd , Pb

(\ 390)

. ()

(32).

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1989

0.07 \ 0.15
 \ 0.08 \
 \ 0.1
 \ 0.05
 / 0.05
 (25) \ 0.23
 \ 0.1

.(3))

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**THE IMPACT OF UNDERGRAUND WATERS AND
SULPHIDE WATERS ON THE PROPERTIES OF
EUPHRATES FROM SYRIAN BORDERS TO HEET IN
ANBAR GOVERNORATE**

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Abstract :

The area of study starts from the entrance of Euphrates river at the Iraqi Syrian boarder line to Heet city. It involves the influence of springs and underground waters along the river stream on water quality. Physical and Chemical properties of Underground water wells on Kaim city , springs of Hijlan and sulphide springs of Heet city have been studied.

The study reveals that the water of the river not affected by underground water wells on Kaim city. Springs of Hijlan and sulphide springs of Heet city caused a clear differences in Physical and Chemical properties of Euphrates river in addition to increasing concentration of some important trace elements (Cr and Pb).