

556.314.(477.54)

Проаналізовано стан водозабезпечення населення приміської зони Хмельницького та окреслено основні її проблеми. Досліджено та проаналізовано основні органолептичні, хімічні та мікробіологічні показники підземних вод даної території. Проведено екологічну оцінку якості води та розроблено рекомендації щодо забезпечення населення приміської зони Хмельницького якісною питною водою.

Ключові слова: підземна вода, якість питної води, приміська зона Хмельницького.

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ECOLOGICAL ASSESSMENT OF QUALITY OF GROUNDWATER OF SUBURBAN ZONE OF THE CITY OF KHMELNYTSKYI

With a decrease in stocks and depletion of aquifers suitable for drinking water supply, and given the absence of centralized water supply in peri-urban areas, the study of groundwater quality is extremely important. In places where there is no Central water supply, the villagers use underground water wells public and private wells, shallow boreholes. Thus, there is unsatisfactory quality of drinking water wells, due to late carrying out of repair and cleaning from silt, failure to comply with regulatory distances from the probable locations of contamination to the source water intake. These problems are typical for suburban areas of the city of Khmelnytsky. According to the analysis of organoleptic, chemical and microbiological parameters of groundwater of suburban zone of the city of Khmelnytsky exceeded the content of iron, ammonium, and hydrogen sulfide. Other indicators which were determined meet the standards. Therefore, the qualitative characteristics of groundwater of suburban zone of the city of Khmelnytsky not meet the requirements of national standards. Therefore can pose a threat to the health of consumers. Therefore, to improve the quality of water supply of the population of the suburban zone of the recommendation: the use of packaged drinking water (during floods and floods) the use of systems of water purification (iron removal, decontamination, lighting, mechanical filtration), construction of pump room on the basis of artesian wells, the division of drinking and industrial water, the implementation of engineering methods of protection from contamination of boreholes and wells, the development of regional control programs of sanitation and hygiene sources of water intake and water chemistry, development of centralized water supply from artesian wells with the mandatory drainage system to prevent groundwater contamination by household wastewater.

Keywords: underwater, quality of drinking-water, suburban zone of the city of Khmelnytskyi.

[1].

[2].

« »),

01.01.2017 .

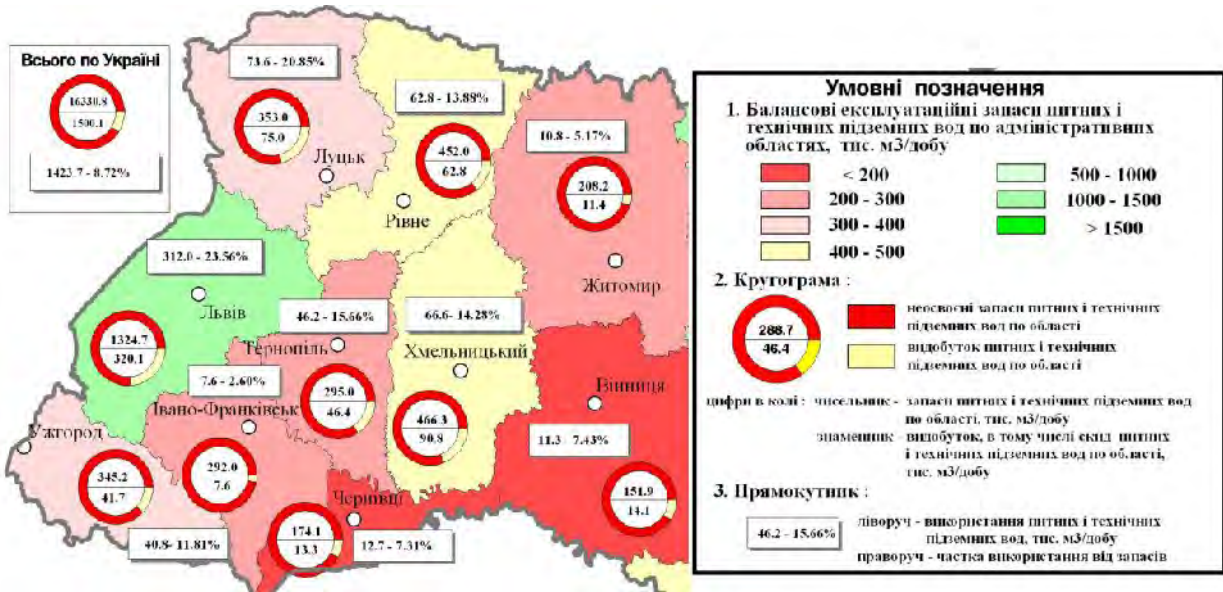
635

1357

16330,8 .^{3/} [3].

466,3 .^{3/} ,

66,6 .^{3/} , 14,28 % (. 1) [3].



1.

[3]

N1S

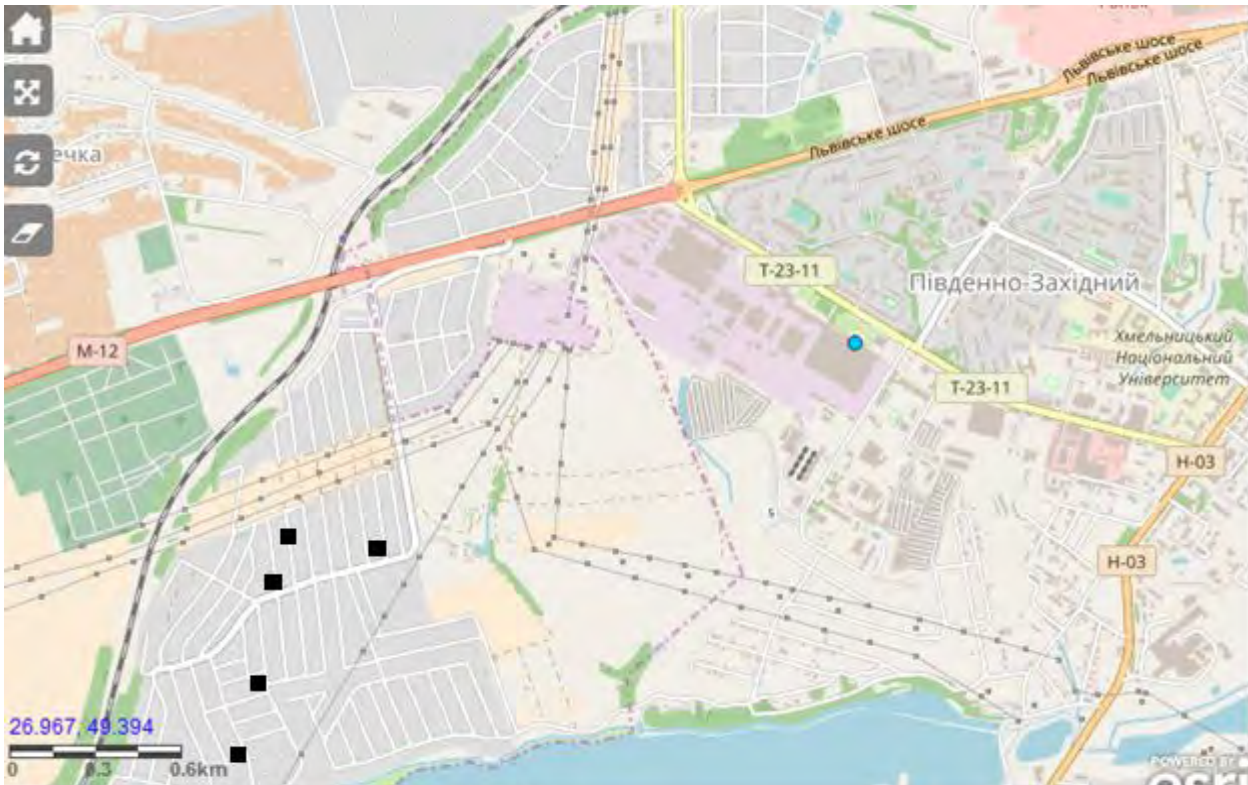
[4].

0,8-1,1 / ³ [4].

) 30-40

32

.2.



■ - точки відбору зразків води

.2.

(

[5]

(. 1-3).

1

N /	2	3	4	5	6
1	t=20° C	(1 = 0,58 / 3)	4 ()	2-3	.2, 31 (5)
2				2,6 -	.2, 38 (5)
3			3	2-3	.2 (5)

2

/	2	3	4	5	6
1		/ 3	7,05 ± 0,35	7	.4 (5)
2		/ 3	0,978 ± 0,241	0,2	.3, 33, 64 (5)
3			6,7 ± 0,1	6,5 - 8,5	.28 (5)

1	2	3	4	5	6
4		/ ³	11,0 ± 2,2	250	.7, 44 (5)
5		/ ³	0,607 ± 0,062	0,5	.6, 37 (5)
6	NO ₃) (/ ³	5,59 ± 1,41	50	.6, 20 (5)
7		/ ³	0,002 ± 0,001	0,5	.6, 36 (5)

N /						[6]
	2	3	4	5	6	
1						
1	t=37 °C, 24	4	/ ³	100 (50)		.48, 57 (5)
2			/100 ³		1	.48, 56 (5)
3	<i>E.coli</i>		/100 ³			.48 (5)
4			/100 ³			.58 (5)

-4,98

-1,21

N1S

(4,98), (1,21) (2),

0,5-1,1 / ³.

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// . 2008 .) – , 2008. – .67–70. : III

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/Received : 16.2.2018 .

/Printed :26.3.2018 .