

Table 1 – Hydrogeological characteristics of the surveyed water intake and irrigation structures of potential participants in measures to develop transhumance livestock farming in the Almaty Region for 2014 and 2026.

№ p/p	Region, district, rural district	Geographical coordinates	Type of water intake facility	Hydrogeological characteristics for 2014 year.				Hydrogeological characteristics for 2025 year				Note
				Depth, h, m	static level, m	flow rate, l/s	mineral ization g/l	Depth, m	static level, m	flow rate, l/s	minera lization n g/l	
1	2	3	4	5	6	7	8	9	10	11	12	13
Balkhash district												
1	Balkhash District, Miyalinsky Sovkhoz	W 44°46'526" D 76°77'845"	Mining	190,0	24,0	1,0	-	-	-	-	-	Abandoned
2	Balkhash District, Miyalinsky Sovkhoz	W 45,29'660" D 75,22'671	Mining	18,0	10,0	0,9	-	20,0	18,5	0,1	0,95	A new well has been drilled, ø 108 mm
3	Balkhash District, Bakanas District	W 44°52'478" D 76°04'96"	Mining	20,0	12,0	0,9	-	9,0	8,0	0,02	0,36	
4	Balkhash District, Bakanas District	W 44°52'874" D 76°09',308"	Mining	18,0	10,0	0,6	-	70,0	64,0	0,1	0,34	A new well has been drilled, ø 108 mm
5	Balkhash District, Berekinsky Selsoviet	W 45°04'62" D 75°47'105"	Mining	19,0	10,5	0,6	-	12,5	11,0	0,05	0,51	

Continuation of table A.1

1	2	3	4	5	6	7	8	9	10	11	12	13
6	Balkhash District, Berekinsky Selsoviet	W 44°49'246" D 76°30'838"	Mining	24,0	9,5	0,75	-					A new well has been drilled, ø 108 mm
7	Balkhash District, Akkolsky Rural Settlement	W 44°95'601" D 75°75'371"	Tubular	50,0	10,0	1,67	-	15,0	4,0	1,24	0,35	
8	Balkhash District, Akkolsky Rural Settlement	W 44°55'71" D 69°06'12"	Mining	24,0	9,5	0,7	-	120,0	3,5	0,9	0,92	A new well has been drilled, ø 108 mm
9	Balkhash District, Akkolsky Rural Settlement	W 44°59'117" D 75°39'24"	Tubular	44,0	15,0	1,6	-	90,0	4,0	0,6	0,36	A new well has been drilled, ø 108 mm
10	Balkhash District, Akkolsky Rural Settlement	W 44°59'434" D 75°32'64"	Tubular	44,0	15,0	1,6	-	21,0	6,0	0,41	0,57	
11	Balkhash District, Akzharsky rural settlement	W 44°58'870" D 67°48'03"	Tubular	44,0	15,0	1,6	-	24,0	6,0	0,15	0,44	
12	Balkhash District, Akzharsky rural settlement	W 44°59'68" D 75°28'641"	Tubular	44,0	15,0	1,6	-	-	-	-	-	Mothballed
13	Balkhash District, Zheltorangi rural settlement	W 45°00'910" D 67°48'15"	Tubular	18,0	9,0	0,7	-	9,0	7,0	0,02	0,36	
14	Balkhash District, Toparsky Selsoviet	W 45°06'147" D 75°09'102"	Mining	18,0	10,0	0,9	-	7,0	6,0	0,01	0,51	

Continuation of table A.1

Zhambyl district												
1	Zhambyl District, Uzynagashsky Rural Settlement	W 43°86'33" D 76°21'68"	Mining	40,0	25,0	0,3	-	5,0	4,0	0,01	2,28	
2	Zhambyl District, Uzynagashsky Rural Settlement	W 43°85'04" D 76°24'46"	Mining	30,0	19,0	0,3	-	4,0	1,0	0,08	5,52	
3	Zhambyl District, Zhambyl Rural Settlement	W 44°34'84" D 75°32'11"	Mining	28,0	18,0	0,42	-	32,0	18,0	0,2	1,81	
4	Zhambyl District, Zhambyl Rural Settlement	W 44°37'566" D 75°37'32"	Mining	20,0	14,	0,1	-	25,0	20,0	0,8	1,27	
5	Zhambyl District, Zhambyl Rural Settlement	W 43°37'88" D 76°22'45"	Tubular	40,0	12,0	0,7	-	85,0	48,0	0,2	0,85	A new well has been drilled, ø 108 mm
6	Zhambyl District, Ulgulinsky Sovkhoz	W 44°39'020" D 75°42'28"	Tubular	40,0	12,0	0,7	-	110	50,0	0,7	0,41	A new well has been drilled, ø 108 mm
7	Zhambyl District, Ulgulinsky Sovkhoz	W 44°41'360" D 75°43'401"	Tubular	40,0	12,0	0,7	-	35,0	13,0	0,8	0,85	
8	Zhambyl District, LLP “R-Kurti”	W 44°27'50" D 75°40'28"	Mining	35,0	24,0	0,36	-	35,0	21,0	1,0	0,32	Pit pump, Ø 400 mm
9	Zhambyl District, Beriktassky Sovkhoz	W 43°48'94" D 76°81'169"	Borehole	35,0	22,0	0,38	-	30,0	20,0	0,7	0,9	
10	Zhambyl District, Beriktassky Sovkhoz	W 43°49'85" D 75°78'81"	Tubular	40,0	9,0	0,6	-	37,0	-	0,4	1,2	Self-discharge

Continuation of table A.1

1	2	3	4	5	6	7	8	9	10	11	12	13
11	Zhambyl District, Beriktassky Sovkhoz	W 43°36'02" D 76°23'150"	Mining	25,0	14,0	0,46	-	5,0	4,5	-	1,87	Abandoned
12	Zhambyl District, Beriktassky Sovkhoz	W 43°38'15" D 76°23'17"	Tubular	40,0	9,0	0,6	-	36,0		0,55	1,29	Self-discharge

Table 2 – Hydrogeological characteristics of the surveyed water intake and irrigation structures of potential participants in measures to develop transhumance livestock farming in the Zhetysu region for 2014 and 2026.

№ p/p	Region, district, rural district	Geographical coordinates	Type of water intake facility	Hydrogeological characteristics for 2014 year.				Hydrogeological characteristics for 2025 year				Note
				Dept h, m	static level, m	flow rate, l/s	minerali zation g/l	Dept h, m	static level, m	flow rate, l/s	miner alizati on g/l	
1	2	3	4	5	6	7	8	9	10	11	12	13
Kerbulak district												
1	Kerbulak District, Zholamansky Sovkhoz	W 44°12'540 D 77°26'805	Tubular	45,0	17,5	0,5	-	80,0	50,0	0,65	0,81	A new well has been drilled, ø 108 mm
2	Kerbulak District, Zholamansky Sovkhoz	W 44°11'440 D 77°25'710	Mining	15,0	105,	0,2	-	15,0	14,0	0,3	0,73	
3	Kerbulak District, Zholamansky Sovkhoz	W 44°10'391 D 77°25'02	Tubular	15,0	9,5	0,25	-	71,0	35,0	0,2	0,85	A new well has been drilled, ø 108 mm
4	Kerbulak District, Zholamansky Sovkhoz	W 44°10'919 D 77°27'010	Mining	13,0	11,5	0,1	-	-	-	-	-	Not used
5	Kerbulak District, Zholamansky Sovkhoz	W 44°09'8816 D 77°22'058	Tubular	15,0	105,	0,2	-	35,0	26,0	0,55	1,01	A new well has been drilled, ø 108 mm

Continuation of table A.2

1	2	3	4	5	6	7	8	9	10	11	12	13
6	Kerbulak District, Zholamansky Sovkhoz	W 44°09'712 D 77°21'912	Mining	16,0	13,5	0,44	-	7,0	4,0	0,71	1,11	
7	Kerbulak District, Zholamansky Sovkhoz	W 44°09'461 D 77°21'160	Mining	17,0	14,5	0,25	-	5,0	3,5	0,2	1,51	
8	Kerbulak District, Zholamansky Sovkhoz	W 44°08'519 D 77°24'48	Tubular	20,0	17,5	0,3	-	65,0	50,0	0,6	0,51	A well has been drilled, with a diameter of 219 mm
Koksu district												
1	Koksu District, Musabekov Rural Settlement	W 44°12'540 D 77°26'805	Tubular	18,5	4,5	0,5	-	140,0	52,0	0,7	0,7	A new well has been drilled, ø 108 mm
2	Koksu District, Musabekov Rural Settlement	W 44°11'440 D 77°25'710	Tubular	18,5	14,5	0,4	-	85	65	0,6	0,8	A new well has been drilled, ø 108 mm
3	Koksu District, Musabekov Rural Settlement	W 44°10'391 D 77°25'02	Mining	20,0	15,5	0,4	-	12,0	10,0	0,11	0,72	
4	Koksu District, Musabekov Rural Settlement	W 44°10'919 D 77°27'010	Tubular	15,0	11,5	0,41	-	50,0	20,0	0,04	0,35	A new well has been drilled, ø 100 mm

Continuation of table A.2

1	2	3	4	5	6	7	8	9	10	11	12	13
5	Koksu District, Musabekov Rural Settlement	W 44°09'8816 Д77°22'058	Tubular	15,0	11,5	0,41	-	-	-	-	-	Not used
6	Koksu District, Musabekov Rural Settlement	W 44°12'540 Д77°26'805	Tubular (Self- discharge)	23,0	21,5	0,2	-				1,04	
7	Koksu District, Musabekov Rural Settlement	W 44°12'540 Д77°26'805	Tubular (Self- discharge)	20,0	15,5	0,15	-				0,97	
8	Koksu District, Musabekov Rural Settlement	W 44°11'440 Д77°25'710	Mining	15,0	10,5	0,25	-	-	-	-	-	Abandoned

