



AZECOLAB
RELIABLE DATA - SOUND DECISION!

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ISO 17025, ISO 9001, ISO 45001, ISO 14001
C599T20653R1-Mar2024



Customer: "PREMIUM KEYFIYYƏTLİ SU" LLC
Binəqədi r.Baksol 20
Baku, Azerbaijan
Alicabbar Aslanov
Contract/PO: C599P01-23
Test: 20653-Drinking water quality tests
Delivery to lab: 21/02/24
Testing: 21/02/24-07/03/24
Number of pages: 6

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Date: 10/03/2024



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Signature:

Date: 10/03/2024

The sampling was done by Azecolab.

Samples were delivered to the Lab by Azecolab.

All tests were implemented in Azecolab laboratory and test results provided in this report are valid only for the samples indicated in this report.

Applied methods/procedures were agreed with Customer.

No deviations were registered during testing process. Statements of conformity to a specification are not required.

AZECOLAB COMPANY LLC is accredited by TURKAK under registration number AB-0469-T for "General requirements for the competence of testing and calibration laboratories" ISO 17025:2017 as test laboratory.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and/or measurement uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

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TERMS AND ACRONYMS

SOP	Standard Operation Procedure
LOD	Limit of Detection- Minimal concentration, which could be registered by applied method.
MU	Method Uncertainty- It determines lower and upper ranges, in within which reported result is confirmed on base of lab's AQC. When MU provided in %, reported result confirmed within plus and minus % from reported result's level.
AQC	Analytical Quality control, laboratory quality control samples tests process, which are evaluated in line with method performance parameters specifications and applying for verification of field samples test results.
IC	Ion Chromatography
SmartChem	Spectroscopic Multianalyser
ICP-MS	Inductively coupled plasma mass spectrometry

1. Project SoW and Method Statement

Below lab procedures is confirmed by client for supporting of project SoW:

PP code	Test Parameter	Test Unit	Ref Method	Technique	LOD	MU, %	Specifications
1045A01	Colour	mg/L Pt-Co	SM 2120C	Spectrophotometric	1.5	14.5	15
1065A01	Total Alkalinity	mg/L CaCO ₃	SM 2320B	Titrimetric	1.4	11	NA
1080A01	Total Hardness	mg/L CaCO ₃	SM 2340C	Titrimetric	0.59	7	60
1120A01	TDS	mg/L	EPA 160.1	Gravimetric	10	7	1000
1380A02	Fluoride (F)	mg/L	ASTM D4327	IC	0.005	11	1.5
1380A03	Chloride (Cl)	mg/L	ASTM D4327	IC	0.016	4	250
1380A04	Nitrate (NO ₃)	mg/L	ASTM D4327	IC	0.016	9	50
1380A05	Sulphate (SO ₄)	mg/L	ASTM D4327	IC	0.02	8	250
1910A03	Cyanide, Total	mg/L	EPA 335.4	SmartChem	0.002	18	0.05
1915A02	Ammonia (NH ₃)	mg/L	ISO 7150-1	SmartChem	0.017	11.5	0.5
1920A02	Nitrite (NO ₂)	mg/L	SM 4500-NO ₂ -B	SmartChem	0.005	15	0.5
2005A15	Manganese (Mn)	ug/L	EPA 6020B	ICP-MS	0.01	2	50
2005A16	Iron (Fe)	ug/L	EPA 6020B	ICP-MS	0.2	3	NA
2300A08	Calcium (Ca)	mg/L	ISO 11885	ICP-OES	0.003	10	100
2300A15	Potassium (K)	mg/L	ISO 11885	ICP-OES	0.009	10	12
2300A17	Magnesium (Mg)	mg/L	ISO 11885	ICP-OES	0.003	10	50
2300A20	Sodium (Na)	mg/L	ISO 11885	ICP-OES	0.006	10	200
3023A01	Permanganate Index	mg/L	ISO 8467	Titrimetric	0.22	11	5
3810B01	Odour	TON	SM 2150B	Sensoric	1	NA	3
7520A01	pH	pH unit	ASTM D1293	pH meter		2	5.5-9.5
7522A01	Conductivity	uS/cm	EPA 120.1	Conductivity meter	1.4	6.2	2500
7523A01	Turbidity	NTU	EPA 180.1	Nephelometric	0.07	10.8	5
7525A02	Total Chlorine	mg/L	SM 4500Cl _G	Colorimeter	0.02	9	0.5

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2. Sampling and Sample registration

Sampling was carried out in accordance with Azecolab SOP

SOP7002 - Water sampling of drinking water from treatment works and piped distribution systems. This SOP is based on ISO 5667-5 establishes principles to be applied to the techniques of sampling water intended for human consumption...

Table 1 Samples registration data

Del-Date	Del-Time	Sam-Date	Sam-Time	Sampling Point	Matrix	Bottle label	LabN
21/02/24	12:53	21/02/24	12:00	Ecosu, Badamdart 92C	DW	1000DP-NP-<8C	20653-01
21/02/24	12:53	21/02/24	12:00	Ecosu, Badamdart 92C	DW	500DG-H2SO4-<8C	20653-01
21/02/24	12:53	21/02/24	12:00	Ecosu, Badamdart 92C	DW	1000DP-NP-<8C	20653-01
21/02/24	12:53	21/02/24	12:00	Ecosu, Badamdart 92C	DW	500DG-NP-<8C	20653-01

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3. Test results

3.1 Physical-Chemical Parameters

	Sam-Date	21/02/24	Specifications
	SamPoint	Ecosu, Badamdart 92C	
	Matrix	DW	
Test Parameter	LabN	20653-01	
Colour	mg/L Pt-Co	<1.5	15
Total Alkalinity	mg/L CaCO ₃	8.4	NA
Total Hardness	mg/L CaCO ₃	8	60
TDS	mg/L	<10	1000
Fluoride (F)	mg/L	<0.005	1.5
Chloride (Cl)	mg/L	0.62	250
Nitrate (NO ₃)	mg/L	0.513	50
Sulphate (SO ₄)	mg/L	1.29	250
Cyanide, Total	mg/L	<0.002	0.05
Ammonia (NH ₃)	mg/L	<0.017	0.5
Nitrite (NO ₂)	mg/L	<0.005	0.5
Manganese (Mn)	ug/L	0.06	50
Iron (Fe)	ug/L	<0.2	NA
Calcium (Ca)	mg/L	1.79	100
Potassium (K)	mg/L	0.253	12
Magnesium (Mg)	mg/L	0.333	50
Sodium (Na)	mg/L	1.62	200
Permanganate Index	mg/L	<0.22	5
Odour	TON	<1	3
pH	pH unit	5.91	5.5-9.5
Conductivity	uS/cm	17.5	2500
Turbidity	NTU	2.89	5
Total Chlorine	mg/L	0.44	0.5

4. Revision History of the Report

Revision#	Date	Revision description
01	10/03/24	Report is issued and approved

-THE END OF THE REPORT-

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