THREATS TOWARDS THE HYDROSECURITY OF THE REPUBLİC OF AZERBAİJAN

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ANNOTATION
The uneven distribution of water resources in the South Caucasus has created great challenges for the region’s ecological safety. The Republic of Azerbaijan is the country most dependent on transboundary waters in the region, as well as the most vulnerable to drinking water supplies. The purpose of the article is to draw attention to the current situation of water resources in Azerbaijan and research the factors that violate the right of the population to live in a healthy way in the region.

KEY WORDS: hydro-terror action, threats of Armenia, contaminated Kur-Aras basin, ecological environment, Sarsang reservoir.

INTRODUCTION
Ecological terrorism is one of the concepts that exist in the science of ecology, and it is a deliberate damage with destroying natural resources, flora and fauna by a particular country or individual. Generally, the water-related aspects of the Armenia-Azerbaijan, Nagorno-Karabakh conflict in the international law, as well as the use of fresh water sources and hydrotechnical devices in the conduct of hydrological, hydropower and ecological sabotage actions of the enemy state are not sufficiently studied. The ecological terrorism policy of Armenia against Azerbaijan is quite diverse in terms of its essence and its implementation mechanisms. At the same time, the non-constructive approach shown by international organizations in the Armenian-Azerbaijani Nagorno-Karabakh conflict serves to deteriorate the situation in the region. Armenia, by taking advantage of the dual position of the Organization for Security and Cooperation in Europe (OSCE) Minsk Group for the consensus in the conflict, extends the settlement of the conflict by baseless excuses. By supporting the foreign patrons, official Yerevan is delaying the conclusion of any contract with the regional states on the management, utilization, protection of the transboundary water resources and the determination of the water quota. Armenia brings an excuse on being a legitimate successor of the Union of Soviet Socialist Republics (USSR), while the Union of Soviet Socialist Republics (USSR) continues to lean on the provisions of the USSR's agreements with Turkey in 1924 and with Iran in 1957 [Rzayev R - 2014, 10, p.33-36].

THE OVERVIEW OF RECENT RESEARCH AND PUBLICATIONS.
The author reviews the monograph of Gurbanov A. “Hydrocrisis, hydroconflict and hydrostrategy” (Baku, 2013), Evrim Maden T.”Weaponization of Water: the Case of Sarsang reservoir” (Ankara, 2017) and analyzes “Based on the information materials of the Ministry of Ecology and Natural Resources of the Republic of Azerbaijan, assessment of damage to the environment and natural resources resulting from Armenian armed aggression and occupation” (Baku, 2015) in the article.

THE USED METHODS IN THE ARTICLE.
The methodological basis of the article is based on the basic provisions and categories of the theory of dialectics and cognition, learning the general development of the society. Using sociological survey
method, it was concluded that drinking water basins in occupied territories by Armenia have been polluted. In the study, as a result of a comparative and systematic analysis of water resources for the health of the population in the region has been found to be incompatible with international water standards.

**THE SCIENTIFIC INNOVATION.**

For more than 25 years, the Republic of Azerbaijan suffers from the ecological terrorism committed by Armenia. At present, the terrorist war of Armenia against Azerbaijan is carried out in different ways by passing from the armed struggle to the "cold terror war" phase. The ecological situation around the Kur-Araz basin in the South Caucasus has been investigated from the political point of view. The study found that the ecological environment of Kur-Araz river basins is in a very dangerous situation. The pollution of transboundary waters has been polluted by exploiting the water basins and rivers in the occupied territories by Armenia. The Sarsang reservoir, which is also the target of Armenia's hydroterror activity and occupation, is a security-oriented provocation of the population in the region.

**ECOLOGICAL PROBLEMS OF THE KUR-ARAS BASIN**

The 3/4 part of the territory of Azerbaijan is located downstream of the Kur river basin. Each year, 350 million cubic meters of water passing through Armenia is polluted with tons of chemical and biological items and flow into the Kur river basin. Moreover, microflora and microfauna in the territory of Azerbaijan along the 43 km of the Araz river were completely destroyed [Evrim Maden T – 2017, 5, p.27-38]. As a result of the direct impact of Armenia's ecological terrorism policy, the level of water pollution in the Araz river has more than the norm. Acidity indicator in the river - ph decreased to 2,4, microflora decreased by 180-200 times. At the same time, valuable fish species have been cut off in the Araz river. It has been determined that 21 species of fishery were destroyed to 15 species in the last 10-15 years [Based on the information materials…, 2015, 3, p.152-155].

Organic contaminants that are neutralized and detected in the Araz river are naturally more than norms. The amount of phenol in the indicated area is 220-1160 times, heavy metal salts (copper, molybdenum, etc.) 36-48 times, nitrogen-phosphorus salts 26-34 times, chlorides 28 times, oil hydrocarbons 73-113 times higher than the solids. At the same time, high-temperature industrial waste water has a negative impact on the temperature and gas regime of the river. The results of the analysis of samples taken from the bottom of the river indicate that the amount of heavy metals in the Araz river is much higher than normal. The amount of toxic substances in the water is more than 50% above the norm. Therefore, contamination of the Araz river with various toxic waste threatens the existence of flora and fauna [Russia II. Iranian-Soviet relations (1917-1991), 2009, 9, p.97-100]. Thus, the main sections of the Araz river flow through Armenia and despite all international pressure, Metsamor Nuclear Power Plant (NPP) operates in the territory of the country and its waste is flowing through the Araz left right, Zengi (Razdan) [Velizade R – 2017, 16, p.69,110]. As well as the terrorist state not joining the 1992 year Convention named "On the use and protection of water flows and international lakes flowing from the borders", it is possible to conclude that the ecological catastrophe is imminent. By the way, there are opinions that, the activity of the Metsamor NPP in the Republic of Turkey, not only in the Republic of Azerbaijan, is a serious threat to the health of the population living in the Igdir region, which is located only 15 km away from the station, especially in the border with Armenia. According to experts, Armenia's Metsamor and Kozladuy nuclear power plants in Bulgaria are the most dangerous enterprises in Europe [Armenian nuclear plant casts threat for Igdir residents, http://www.iimes.ru/?p=5963-2003_1].

The Oxchuchay river, flowing through Shirikan village of Zangilan region, is polluted with chemical contaminants of Qajaran copper-molybdenum, Gafan copper ore-gourning plants and biological polluted waters of Gafan-Qajaran cities (including villages, hospitals, agricultural facilities) located in Armenia. This has turned the river basin into a "dead zone." The 43 kms area of the river falling into the territory of Azerbaijan and 455 km2 of the catchment area are constantly polluted. As a result, microflora - fauna was destroyed, self-cleaning process was stopped in the river water. The main reason for the pollution of Agstafachay, the right bank of the Kur river, is the discharge of one million cubic meters of waste from Armenia's Ijevan and Dilican settlements, industrial enterprises. Thus, the amount of phenol in the river exceeded the norm 35-45 times. The water reservoir built on it is a serious threat to the population of the North-West region of Azerbaijan [Velizade R – 2017, 16, p.69,110].

There were cases of skin diseases in the body of the people who used the Kondalanchay and Kuruchay water flowing through the territory of Fuzuli and contamination of these rivers by Armenians caused various diseases [Based on the information materials…, 2015, 3, p.145].

Other rivers, flowing from the west to the east, are fed mainly by rains and snow waters are polluted with various waste near Agdam, Asgaran, Khankendi and other settlements. The absence of any information about the current ecological situation of the occupied territories creates a great difficulty. Armenia, which oversees these areas, deliberately conceals the real ecological situation there, and it is only possible to make general judgments about the situation [Based on the information materials…,2015,3, p.158].

Water resources of Kalbajar and Lachin regions, occupied by Armenia are of strategic importance. Armenian statistics predicted that in the future. The population of the so-called “Nagorno-
Karabakh Republic” could reach 200,000 people, estimated that annual freshwater demand for agricultural and domestic use would be 365 million m3. This is 59% more than the reserves of Sarsang reservoir. It is no coincidence by officials of Yerevan estimated current situation of Kalbajar and Lachin regions as a result of so-called regime is undermining and the initiative of Azerbaijan on the hydro-state.

Armenian politologist Levon Melik-Shahnazarian proposed the idea of cutting rivers firstly. According to him, the part of Aghstafa, Tovuz, Gazakh, Goranboy, Terter, Barda, Agjabedi, Beylagen, Agdam and Fuzuli regions controlled by the Republic of Azerbaijan depends on the rivers starting from the territories completely controlled by Armenians. Therefore, Armenia should use this "advantage". The Armenian author writes that if at least half of these rivers can be prevented, then Azerbaijan will face severe shortage of water, and the volume of water in Araz and Kura rivers will be sharply reduced [Russia ll. Iranian-Soviet relations (1917-1991) - 2009, 9, p.59].

The National Environmental Monitoring Department of the Ministry of Ecology and Natural Resources conducted further monitoring for the first decade of September in 2015 to study pollution of Kur and Araz transboundary rivers. In the first decade of September, water consumption in the Kur River increased by 15 m3 / sec to 124 m3 / sec in the third decade of August. According to the results of the monitoring, the amount of biogenic substances in the Kur River has exceeded the norm by the impact of wastes and industrial wastewater discharges directly to water bodies from Georgia and Armenia. Specific pollutants in water contain phenols at 4.6 in Shikhli-2, 4.3 in Agstafachay and 3 in Agstafachay water reservoir. According to the results of the monitoring, the phenol crossed on the Araz River in Horadiz 3.3, Shahsevan 2.7, and Bahramtepe - 2.2 times. Copper concentrates in the Kur and Araz rivers have dropped normally within the norm. The oxygen regime of water has changed within the sanitary norms at all points of 6.74-7.43 mg / l. In general, contamination of copper compounds in all three stations of the Araz River is monitored throughout the year [Country Study on Biodiversity….pdf, 4, p.27-38].

Hundreds of diverse mineral-aqued springs in the occupied area occupy 39.6% of the total geological reserves of Azerbaijan mineral waters. The area, especially the Shusha, Lachin and Kalbajar regions, have very large mineral resources. In the Lachin-Kalbajar region 63 springs are divided into Istisu (Kalbajar region) and Ilisu (Lachin region) species. Because of their composition, quality and therapeutic properties, these waters are not left behind by world-famous "Karlov Vary", "Narzan", "Kislovodsk", and "Jeleznovodsk", even though they are some of their properties. Mineral water in the Kalbajar region differs especially in terms of their favorable gas and chemical composition, high temperatures, and great natural resources. These mineral waters have healing properties for both external and internal diseases. Thus, a large spa and mineral water filling plant was built over the Istisu spring in the 80s. That plant produced 800,000 liters of water a day. Different internal diseases were treated with Turshsu mineral spring, located 17 km from Shusha city. From the Turshsu mineral spring to the city of Shusha, water was supplied. Intentional pollution of natural water basins such as Big Alagol, Small Alagol, Zalkhagol, Canligol, Garagol, Alagol, Illigli Garagol in the occupied territories also caused additional environmental problems for the Republic of Azerbaijan in the future.

OCCUPIED SARSANG WATER RESERVOIR

The end of the 20th and early 21st century in the humanity's history have been characterized by increasing number of natural processes and risk of damage to ecological systems. Larger ecological objects during such ecological events are more dangerous than accidents and crises. Water reservoirs, dams, tunnels, canals, etc. installations include these facilities and all of these objects are built together with power plants in different forms. During ten, one hundred and even thousands of years exploited water reservoirs exposed to various wear. The developed countries in Europe always keep these facilities up-to-date with technological equipment. For example, 50% of the items in England were built 80 years ago, in Spain, 10 points have been operating for over 1600 years. The Reynfelden hydroelectric power station built in 1880 on the River Rhine in Germany is still being exploited. It also has 4,000 years experience in the construction of dams and water resource management in China [On joining the Republic of Azerbaijan…http://unesco.perslab.az/en/page/ZkJBp5Y Pg2Fe-1993,14, p.64].

World statistics indicate that the increased demand for potable water and the likelihood of damage to hydraulic bumps as a result of hydrocarbons has increased. Thus, the tendency to increase the probability of accidents in hydraulic mills is accelerating after 30-40 years of operation.

The development of irrigation agriculture in the Republic of Azerbaijan, which is considered as a dry region, is an important issue for the city and villages to supply water. Small Caucasus Mountains, currently under occupation of Armenia, are of great importance for the formation of water resources of the Republic of Azerbaijan. All the rivers deriving their source from these mountains, especially Tartar, Hakari, Khachinchay, Kondalanchay and others, which are the right sides of the Kura, bring plenty of water to the flat areas themselves. There have been created artificial lakes and irrigation canals on some of them. One of such complexes used for irrigation and electricity generation is the Tartar Hydrocomplex. The Tartar Rivers beginning in Kalbajar region and passes through the territory of Agdere, Tartar and Bara and flows into the Kur river [Suleymanov E. 2017.13, p.64]. Tutqu, Lev and Ayrin are the left rivers of the Tartar river. The altitude difference between the source and
the flow is 3117 m. The Sarsang reservoir was built on the Tartar River in 1976 on the octaves known as the Garia bridges between the people. There are 3 bridges in Agdere region. The first bridge remained in the Sarsang valley where the present water reservoir was built. That bridge was built in such a safe location that it was planned to construct a corridor in the 1970s, just as the bridge was built. Because in this section and in the area, the right and left coast of the Tartar River consisted of rocky cliffs and favorable geographical location, which could be traced in the future. [Gurbanov A – 2013, 8, p.97-100].

The Sarsang reservoir was created by the capital investment allocated to the Azerbaijan Soviet Socialist Republic (SSR). Its total water capacity is 560 million m^3 and the height of the dam is 125 m. Sarsang water reservoir is the highest water reservoir in the country due to its height. Sarsang reservoir is currently in the occupied Agdere region. Sarsang reservoir provided irrigation water to nearly 100,000 hectares of land in 6 districts of the republic (Terter, Aghdam, Barda, Goranboy, Yevlakh and Agjabadi). Regularly preventive maintenance work has been carried out by Azerbaijan specialists on the safety of the item. The ecological and technical crisis in the water reservoir is still continuing because of the fault of the separatist Armenia. The use of this water is extremely dangerous for the population of the nearby villages. [Mustafayev GT – 1970, 6, p.112-118].

Azerbaijani’s, who are not content with this, even try to damage the population by exploding a mine in the territory of Azerbaijan. In the winter months, 85-90 percent of the annual water supply damages deliberately, causing another environmental tension, floods. For this reason, there will be any natural cataclysm, earthquake, and so on. the destruction of the dam, the humanitarian and ecological disaster of the region.

Due to the occupation of the Sarsang reservoir only 100,000 hectares of irrigation water in irrigated agriculture has had an irreversible damage to this region of the Azerbaijan Republic. At present he has been in a state of emergency for over 25 years due to lack of technical maintenance. That is why, the Sarsang reservoir remains in the occupied territories causing serious problems for the 138,000 population of Nagorno-Karabakh, located in its low-relief, supplying 400,000 people in the Lower Garabagh region with drinking water and it should be noted that, if a dangerous situation arises, the destruction of the dam can only destroy the territory and population within one hour [Stepanakerttgezagetzecilerekonusan…https://www.ernenhaber.az/tr/news/2018/07/24/Karaba%C4%8F-Azerbaycan-Minge%C3%A7e/133549 - 2018, 12, p.21-26].

As a result of the impossibility of using the Sarsang water reservoir, the calculation of the damage to the economy of the country is possible by 2 approaches:

-electricity generation and irrigation of cultivated lands.

In response to such inhuman and aggressive acts that are contrary to all international law and norms. A delegation of the Association for the Advancement of Civil Society in Azerbaijan in may, 2013 started to inform the international community about the project "Sarsang-Humanitarian Disaster Prevention". The intense activity of the Association in numerous meetings and conferences resulted in the mobilization of European circles into the region's monitoring processes in 2015. Delegation of the Civil Society Development Assistance Association of Azerbaijan (ACSDA) made substantiated statements on this issue. Representatives of the Association have informed the world community that the Sarsang reservoir, which has been under the care for more than 20 years, is in an emergency condition. Therefore, this reservoir is likely to break through natural disasters, technical and predictable provocative reasons. [Valiyev V, http://www.anl.az/down/meqale/zaman/2014/may/374173.htm – 2014,15]. As a result of the above mentioned reasons, the Sarsang reservoir has now become a major threat to the Republic of Azerbaijan. This danger is getting more realistic over time. Along with the ecological crisis and biological diversity, as a result of provocation, technogenic or natural disaster, it is likely that massive destruction of 400,000 civilians residing in the untouched surrounding areas of the Republic of Azerbaijan and re-creating humanitarian crisis in the region. Through consistent meetings held by the Association, the the Parliament Assembly of Council of Europe (PACE) Committee of Ministers sent a resolution to the Bureau on 1 September 2013 to approve the proposal of the resolution "On the humanitarian disaster which could create a hazardous situation for the Sarsang reservoir in the occupied Azerbaijan territories". The Committee of Representatives also recommended the Bureau to submit a draft resolution to the Committee on Social Affairs, Health and Sustainable Development to be appointed as rapporteur. The final decision of the Committee also noted that all types of chemicals and pollutants of water entering Azerbaijan from Armenia were many times higher than normal, and the growing and spreading of various diseases among the Azerbaijani population living in watercourses should be regarded as an ecological terrorist act by Armenia.

Unfortunately, despite the aggressor Armenia, which has not yet been ratified by international law as an aggressor, continues to violate the legal regime and international law by keeping one-fourth of the territory of Azerbaijan, especially the Sarsang reservoir. Officials of the neighboring state claiming that the falsified statements of the Azerbaijani side on the environmental tragedy in the Sarsang reservoir were false but did not hesitate to prevent the European authorities from monitoring the borders of the European Union by justifying their refusal from international obligations. In spite of the obstacles
created by the opposite side, the resolution of the Parliament Assembly of Council of Europe (PACE) winter session (January 26, 2016) was adopted by the majority of members of Parliament of the Bosnian (MP) Melta Markovic "The deliberate deprivation of the inhabitants of the frontline regions of Azerbaijan" [Assembly debate on 26 January 2016, http://assembly.coe.int – 2016, 2, p.3].

CONCLUSION

Armenia's terrorist policy against hydrosphere of the Republic of Azerbaijan as well as is a serious threat to humanity. The pollution of the Kur and Araz rivers, the destruction of the occupied mineral springs of the Republic of Azerbaijan, the destruction of forest areas, and the illegal acquisition of mineral and raw material resources have become Armenian state policy. It should be noted unambiguously that the problem with the Sarsang reservoir can not be viewed as a separate problem. This problem was caused by the armed aggression of Armenia against Azerbaijan and the occupation of Nagorno-Karabakh and other territories by Armenia. Thus, long-term solution to this problem can not be achieved without the liberation of Azerbaijani territories from occupation. Just as the world community demonstrates respect and objectivity to international norms, the fact of occupation must be abandoned and the Sarsang water reservoir should be rebuilt in accordance with the modern requirements after appropriate restoration and reconstruction.

REFERENCES