

**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



**ANTALYA DRINKING
WATER
REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



**ENVIRONMENTAL AND SOCIAL
MANAGEMENT PLAN**

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PREPARED BY

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ABBREVIATIONS

- AFAD:** Disaster and Emergency Management Presidency
- ASAT:** Antalya Water and Wastewater Administration
- CIMER:** Presidential Communication Centre
- CMP:** Contractor Management Plan
- COVID-19:** Corona Virus Disease
- dBa:** Decibel
- DSI:** State Hydraulic Works
- EBRD:** European Bank for Reconstruction and Development
- EHS:** Environment, Health, and Safety
- EIA:** Environmental Impact Assessment
- EPE:** Environmental Action Program
- EPRP:** Emergency Preparedness Resettlement Plan
- ESF:** Environmental and Social Framework
- ESMP:** Environmental and Social Management Plan
- ESMR:** Environmental and Social Monitoring Report
- ESMS:** Environmental and Social Management System
- ESS:** Environmental and Social Standards
- EU:** European Union
- FI:** Financial Intermediary
- GBV:** Gender-based Violence
- GM:** Grievance Mechanism
- HEPP:** Hydroelectric Power Plant
- IFC:** International Finance Corporation
- LMP:** Labor Management Plan
- OHS:** Occupational Health and Safety
- RP:** Resettlement Plan
- SEP:** Stakeholder Engagement Plan
- SSI:** Social Security Institution
- TEFWER:** Türkiye Earthquake, Floods and Wildfires Emergency Reconstruction Project

Environmental and Social Management Plan

TMP: Traffic Management Plan

WB: World Bank

WBG: World Bank Group

WWTP: Wastewater Treatment Plant

SEA: Sexual Exploitation and Abuse

SH: Sexual Harassment

Executive Summary

On 28 July 2021, wildfires occurred in Manavgat district of Antalya, caused major damages especially to drinking water network lines, water storage tanks and pumping stations connected to these network lines. After the wildfire disaster, Antalya General Directorate of Water and Wastewater Administration (ASAT) is planning to implement the "Antalya Drinking Water Rehabilitation Project for Wildfire Areas", which is financed within the scope of the Türkiye Earthquake, Flood and Forest Fires Emergency Reconstruction (TEFWER) Project developed with the participation of İller Bankası A.Ş. (İLBANK) and the World Bank (WB).

The "Antalya Drinking Water Rehabilitation Project for Wildfire Areas" which will be carried out within the scope of the TEFWER Project (), has been financed by a WB loan with a budget of EUR 28,000,000 to be channelled through İLBANK. Antalya Drinking Water Rehabilitation Project for Wildfire Areas has been divided into 3 Sub-Projects as ASAT4-W1 Contract Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank, ASAT4-W2 Contract Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District and ASAT4-W3 Contract: Construction of Drinking Water Network and Water Storage Tank in Districts affected by the Wildfire (Manavgat Gündoğdu, Hocalar, Kısalar and Demirciler Districts).

General Directorate of ASAT is the Project owner and will act as the Administration in the sub-projects. ASAT is the primary authority to sign the sub-loan agreement and execute the sub-projects. ALDAŞ Infrastructure Management and Consultancy Services Industry and Trade Inc. (ALDAŞ A.Ş.) will act as the Project Management Unit and Supervision Consultant and will be responsible for both technical and administrative progress of the contract packages on behalf of ASAT.

The aim of the sub-projects is to improve the infrastructure destroyed by wildfire, to increase water reserves in case of natural disasters such as fire and to provide drinking water supply to citizens.

Hereby this ESMP Document is structured in accordance with the relevant legislation of the Republic of Türkiye, the World Bank's Environmental Social Standards (ESSs), TEFWER's Environmental and Social Management Framework (ESMF), and information specific to the 3 Subprojects.

With this prepared ESMP, it is aimed to provide a practical plan to avoid, minimise or manage potential adverse environmental and social impacts/risks related with Project activities, as well as to enable meaningful and inclusive multi-stakeholder consultation and engagement for Project implementation. This ESMP has been developed to guide the environmental and social management of three sub-projects: ASAT4-W1, ASAT4-W2, and ASAT4-W3. Recognizing that these sub-projects will be tendered and awarded separately, the ESMP has been carefully structured to include separate sections and matrices for each sub-project. This approach ensures that specific actions, mitigation measures, monitoring plans, and responsibilities are clearly

defined for each sub-project, providing tailored guidance to contractors during the bidding process. By organizing the ESMP in this manner, the document ensures that all environmental and social requirements are appropriately addressed for each sub-project, facilitating compliance with relevant standards and regulations.

1. INTRODUCTION

One of the regions which is most affected by the wildfire disasters in Türkiye has been Antalya Province, Manavgat District, its surrounding villages, and towns. The wildfire disaster, which started at four different points in the Manavgat district on 28 July 2021 and spread to other parts of the border districts of Akseki, Gündoğmuş, Ibradı and Alanya, across 21 different areas and lasted for days. The wildfire came under control after 10 days and a total area of 60,000 hectares was burnt. It was determined that 1,500 hectares of the total 60,000 hectares of burnt area was agricultural land (**Figure 1**). A total of 59 neighbourhoods have been affected in the mentioned districts and both infrastructure and superstructure, residences and workplaces have been severely damaged.

After the wildfire disaster, although urgent works for improvement of the damaged infrastructure and of drinking water supply have been carried out, great damage has affected especially the drinking water network lines, water storage tank and force main connected to these lines in Manavgat and its surrounding (**Figure 2**). Also, during the fire extinguishing works, due to the existing capacity of water storage tanks, there were problems meeting the local water needs and water shortage was experienced in the tourism regions where water is supplied from the same water storage tank. After the wildfire disaster, General Directorate of Antalya Water and Wastewater Administration (ASAT) carried out emergency repair and improvement work however, by taking into consideration the problems experienced during the wildfire in this region, comprehensive infrastructure improvement projects have been prepared to strengthen the infrastructure in this region and meet the drinking water need accordingly.

In this context, General Directorate of ASAT is planning to implement improvement and reconstruction works for the wildfire affected areas within the scope of **Antalya Drinking Water Rehabilitation Project for Wildfire Areas** with a cost of **28.000.000 Euro**, and this project is planned to be financed within the scope of TEFWER Project.

Within the scope of the Antalya Drinking Water Rehabilitation Project for Wildfire Areas, the following 3 sub-projects are planned:

- **ASAT4-W1 Contract:** Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank,
- **ASAT4-W2 Contract:** Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District,

- **ASAT4-W3 Contract:** Construction of Drinking Water Network and Water Storage Tank in Districts affected by the Wildfire (Manavgat Gündoğdu, Hocalar, Kısalar and Demirciler Districts).

This Environmental and Social Management Plan (ESMP) of **Antalya Drinking Water Rehabilitation Project for Wildfire Areas** has been prepared, in accordance with the relevant legislation of the Republic of Türkiye and the World Bank's Environmental Social Standards (ESSs).



Figure 1: Images of Wildfire Areas in Antalya Manavgat District



Figure 2: Situation of Affected Infrastructure After Wildfire Disaster (Images of Drinking Water Network, Water Storage Tank, Pumping Stations)

1.1. Objective of Environmental and Social Management Plan

Türkiye Earthquake, Floods and Wildfires Emergency Reconstruction (TEFWER) Project is financed by a World Bank loan to be channelled through ILBANK to the municipalities. The aim of the project is for the municipalities to carry out emergency repairs, structural strengthening and, if necessary, demolition/reconstruction and improvement activities on their own damaged infrastructures and to implement measures to increase disaster preparedness and climate adaptation.

While TEFWER Project responds to the urgent and most critical reconstruction and rehabilitation needs resulting from recent wildfires, floods, and earthquakes, it also effectively addresses the urgent measures necessary for building resilience against disasters and climate risks, the frequency, and intensity of which have increased.

Within the scope of the TEFWER Project, Environmental and Social (E&S) risks of the sub-projects are assessed according to the World Bank Environmental and Social Standards (ESS) and TEFWER's Environmental and Social Management Framework (ESMF) prepared by ILBANK. The E&S risks related to this sub-project have been evaluated as "Moderate Risk" by applying the E&S Screening Forms. The E&S Screening Forms are presented in (Annex-1.1) for ASAT4-W1 project, (Annex-1.2) for ASAT4-W2 project and (Annex-1.3) for ASAT4-W3 project.

The Administration ASAT General Directorate, Supervision Consultant ALDAŞ Inc. will carry out project management in accordance with the ESMF and ensure that the projects to be carried out within the scope of TEFWER Project comply with the relevant World Bank policies and procedures and the legislation requirements of the Republic of Türkiye.

This Environmental and Social Management Plan has been prepared within the scope of the Antalya Drinking Water Rehabilitation Project for Wildfire Areas in accordance with the ESMF of the TEFWER Project as well as the guides listed below:

- World Bank Group Environment, Health, and Safety (EHS) General Rules
- World Bank Group Water and Sanitation EHS Guide
- World Bank Group Waste Management EHS Guide

The ESMP identifies the anticipated social and environmental risks and adverse impacts of the project, establishes environmental and social baseline conditions in the project areas as well as the measures to be taken to eliminate the negative environmental and social impacts and risks or to keep them at an acceptable level.

The Antalya Drinking Water Rehabilitation Project for Wildfire Areas comprises the following sub-projects: (1) ASAT4-W1 Contract: Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank, (2) ASAT4-W2 Contract: Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District, and (3) ASAT4-W3 Contract: Construction of

Drinking Water Network and Water Storage Tank in Districts affected by the Wildfire (Manavgat Gündoğdu, Hocalar, Kısalar and Demirciler Districts).

The main objective of the ESMP is to ensure that the environmental and social requirements and commitments of the 3 sub-projects to be carried out are adapted to the construction and operation phases of the project and to manage them effectively.

1.2. Legal Framework

1.2.1. National Legislation

Laws and regulations related to the scope of the project regarding drinking water and domestic water are specified in this section.

Laws and Regulations

➤ Laws:

- a) Environmental Law (Law No. 2872, Approval Date: 1983)
- b) Law on Groundwater (Law No. 167, Approval Date: 1960)
- c) Law on the Protection of Cultural and Natural Assets (Law No. 2863, Approval Date: 1983)
- d) Forest Law (Law No. 6831, Approval Date: 1956)
- e) Labor Law (Law No. 4857, Approval Date: 2003)
- f) Soil Conservation and Land Use Law (Law No. 5403, Approval Date: 2005; Law No. 6537 on Amendments, Approval Date: 2014)
- g) Municipality Law (Law No. 5393, Approval Date: 2005)
- h) Metropolitan Municipality Law (Law No. 5216, Approval Date: 2004)
- (i) Occupational Health and Safety Law (Law No. 6331, Approval Date: 2012)
- (j) Law on Measures Relating to Disasters that Affect Public Life and Relief Assistance (Law No. 7269, Approval Date: 1959)
- (k) Law on Transformation of Areas Under Disaster Risks (Law No. 6306, Approval Date: 2012)

➤ Regulations:

- (a) Waste Management Regulation (Official Gazette No. 29314 dated 02.04.2015)
- (b) Regulation on Regular Collection of Waste (Official Gazette No. 27533 dated 26.03.2010)
- (c) Waste Oil Management Regulation (Official Gazette No. 30985 dated 21.12.2019)
- (d) Regulation on Control of Packing Waste (Official Gazette No. 31523 dated 26.06.2021)
- (e) Regulation on Control of Excavation Soil, Construction and Demolition Waste (Official Gazette No. 25406 dated 18.03.2004)

- (f) Regulation on Water Pollution Control (Official Gazette No. 25687 dated 31.12.2004)
- (g) Regulation on Water Intended for Human Consumption (Official Gazette No. 25730 dated 17.02.2005)
- (h) Regulation on Protection of Groundwater against Pollution and Deterioration (Official Gazette No. 28257 dated 07.04.2012)
- (i) Regulation on Surface Water Quality (Official Gazette No. 28483 dated 30.11.2012)
- (j) Regulation on Control of Pollution Caused by Dangerous Substances in Water and Its Surrounding (Official Gazette No. 26005 dated 26.11.2005)
- (k) Regulation on Air Quality Assessment and Management (Official Gazette No. 26898 dated 06.06.2008)
- (l) Regulation on Control of Environmental Noise (Official Gazette No. 32029 dated 30.11.2022)
- (m) Regulation on the Control of Soil Pollution and Point Source Pollution (Official Gazette No. 27605 dated 08.06.2010)
- (n) Regulation on Environmental Impact Assessment (Official Gazette No.31907 dated 29.07.2022)
- (o) Regulation on Environment Permit and License (Official Gazette No. 29115 dated 10.09.2014)
- (p) Sub-contracting Regulation (Official Gazette No. 27010 dated 27.09.2008)
- (q) Regulation on Structures to be Built in Disaster Areas (Official Gazette No. 26582 dated 14.07.2007)

1.2.2. International Legislation

1.2.2.1. World Bank Environmental and Social Standards

World Bank has 10 Environmental and Social Standards, 9 Standards (except ESS 7 since there are no indigenous peoples in Türkiye) are used in Türkiye. Mentioned 9 ESS s are specified as following:

- ESS1: Assessment and Management of Environmental and Social Risks and Impacts.
- ESS2: Labor and Working Conditions.
 - Emergency Preparedness and Response Plan
 - Labor Management Plan (LMP)
 - Occupational, Health and Safety Plan and Procedures
- ESS3: Resource Efficiency and Pollution Prevention and Management.
 - Asbestos Management Plan
 - Waste Management Plan

- ESS4: Community Health and Safety.
 - Community Health and Safety Plan
 - Traffic Management Plan
- ESS5: Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement.
- ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources.
- ESS8: Cultural Heritage.
 - Chance Find Procedure
 - Cultural Heritage Management Plan
- ESS9: Financial Intermediaries; and
- ESS10: Stakeholder Engagement and Information Disclosure.
 - Stakeholder Engagement Plan

Within the scope of Antalya Drinking Water Rehabilitation Project for Wildfire Areas, following ESSs are those applicable to this Subprojects: the ESS1, ESS2, ESS3, ESS4, ESS6, ESS8 and ESS10 Policies.

1.2.2.2. International Labour Organization (ILO) Conventions

List of ILO Conventions Approved by Türkiye:

- C-100 Equal Remuneration Convention, 1951 (No. 100), (Approval Date: 19 Jul 1967)
- C-138 Minimum Age Convention, 1973 (No. 138), (Approval Date: 30 Oct 1998)
- C-155 Occupational Safety and Health Convention, 1981 (No. 155), (Approval Date: 22 Apr 2005)
- C-187 Promotional Framework for Occupational Safety and Health Convention, 2006 (No. 187), (Approval Date: 16 Jan 2014)
- C-042 Workmen's Compensation (Occupational Diseases) Convention (Revised), 1934 (No. 42), (Approval Date: 27 Dec 1946)
- C-161 Occupational Health Services Convention, 1985 (No. 161), Approval Date: (22 Apr 2005)
- C-167 Safety and Health in Construction Convention, 1988 (No. 167), (Approval Date: 23 Mar 2015)

1.2.2.3. Other International Conventions

- Kyoto Protocol regarding to the United Nations Framework Convention on Climate Change.
- Montreal Protocol on Substances that Deplete the Ozone Layer.
- Barcelona Convention for the Protection of Marine Environment and the Coastal Region of the Mediterranean.

- Vienna Convention for the Protection of the Ozone Layer.
- Paris Agreement

1.2.3. Key Gaps Between the Turkish EIA Regulation and the WB ESSs

The Turkish EIA procedures are, with some exceptions, in line with the World Bank ESSs. The primary exceptions are in project categorization, scope of environmental and social assessment, and public consultation. In cases where the Turkish legislation differ from the ESSs, the more stringent one will be applied to the project implementation.

The 3 sub-projects to be carried out are outside the scope of EIA since they are not included in Annex 1 and Annex 2 Lists of the Environmental Impact Assessment Regulation published in the Official Gazette No. 31907 and dated 29.07.2022.

Table 1: Comparison of World Bank Environmental Policy and National Legislation

WB Environmental and Social Standards	Gap Analysis Between Turkish Legal Framework and The WB Environmental and Social Standards	WB Documents/Study to Fill the Gaps
ESS1: Assessment and Management of Environmental and Social Risks and Impacts.	<p>The main gaps between the National EIA and ESS1 are as follows:</p> <ul style="list-style-type: none"> - Social impact assessment is not fully integrated into the Turkish EIA, resulting in the absence of assessment of the project triggering social impacts, including impacts on the disadvantaged or vulnerable and impacts on gender-related issues, - Lack of an executive summary and information on the legal and institutional framework in the Turkish EIA (the level of technical information in the non-technical summary required in the Turkish EIA may not meet the DB requirements), 	<p>Sub-project specific Environmental and social assessment studies regarding ESMP and SEP will be prepared in line with ESS1. In this respect, as it is defined in Table of Content provided in Annex 1 of Environmental and Social Management Framework (ESMF) that was approved by WB for TEFWER Project potential social impacts of the sub-projects will be the part of the assessment. The environmental and social assessment will include impacts of the associated facilities and potential cumulative impacts. Depending on the level of the impacts and proposed mitigation measures together with residual impact analysis, sub-management plans will be annexed to the ESMP.</p>
ESS2: Labor and Working Conditions	<p>In general, Turkish national laws and regulations on labor and working conditions meet the requirements of ESS2. The worker grievance mechanism is the main gap between the national legislative requirement and ESS2. According to Turkish national</p>	<p>The gaps will be filled with the worker grievance mechanism established within the scope of the Grievance Mechanism in Section 6 of the SEP document prepared within the scope of sub-projects.</p>

	labor and working conditions legislation, there is no specific requirement for a grievance mechanism that allows workers to submit their complaints to the employer.	
ESS3: Resource Efficiency and Pollution Prevention and Management	Most of the relevant national legislation regarding laws and regulations is in line with EU directives. There is no major gap between ESS3 and legal requirements.	The measures to be taken are specified in three separate Environmental and Social Impact Monitoring Plans prepared within the scope of sub-projects.
ESS4: Community Health and Safety	In general, there is no gap in terms of policy level. However, management of specific risks at the project level such as labour flow, sexual exploitation, sexual abuse and harassment are the main gaps of ESS4.	With the Grievance Mechanism included in the Section 6 of the SEP document prepared within the scope of sub-projects, the demands, suggestions and grievances of the communities affected by the project will be received and the gaps will be filled.
ESS5: Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement	Turkish legislation on land acquisition basically fulfils the requirements of ESS5. However, there are some differences such as preparation of Resettlement Plan or Post Social Audit, compensation/assistance to renters who do not own property and other informal land users, replacement cost, request for expropriation of unusable land due to partial expropriation (this gap is related to the timing issue), scope of project affected people (such as being landowners or informal users, providing public information).	There will be no forced resettlement within the scope of sub-projects that will affect property owners, non-owner tenants and other informal land users living in the area.
ESS8: Cultural Heritage	There is no significant gap between ESS8 and national legislation in terms of the scope of Project activities for physical cultural heritage. However, there are no requirements in national legislation regarding intangible cultural heritage.	A Chance Find Procedure is prepared and implemented to provide guidance for the obligations to be fulfilled if any cultural heritage is found. There are no processes that will affect intangible cultural heritage within the scope of sub-projects.
ESS10: Stakeholder Engagement and Information Disclosure	Effective and transparent stakeholder engagement is a key gap in terms of ESS 10 requirement. In this context, a Stakeholder Engagement Plan is required to identify different stakeholders (project-affected parties and other interested parties, including disadvantaged or vulnerable parties).	In the SEP document prepared within the scope of sub-projects, all parties affected by the subprojects have been identified. Information and consultation methods have been determined for all parties to be informed about the work to be carried out within the scope of sub-projects.

	Stakeholder engagement should be a continuous process.	
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1.3. Risk Classification of Project

Within the scope of ESF, the WB classifies projects in terms of environmental and social risks into four categories, by considering the Borrower's institutional capacity:

High: Negative risks and impacts on human population and environment.

Significant: Less complex, smaller is available in scaling technology. Effective reduction is more likely.

Moderate: Potential risks and impacts are negligible.

Low: Minimal or negligible adverse risks. There is no additional evaluation required.

Within the scope of the Antalya Drinking Water Rehabilitation Project for Wildfire Areas, this Environmental and Social Management Plan (ESMP) has been prepared since the Environmental and Social (E&S) risks related with the sub-projects have been assessed as "Moderate" risk by applying the E&S Screening criteria for the sub-projects. E&S Screening Forms are presented in (Annex-1.1) for ASAT4-W1 project, (Annex-1.2) for ASAT4-W2 project and (Annex-1.3) for ASAT4-W3 project.

2. SITE/LOCATION DESCRIPTION

Manavgat District of Antalya Province is a tourism centre located on the Mediterranean coast in the south of Türkiye (**Figure 3**). The length of the Antalya coastline reaches 630 km, and the city is considered as the "capital of tourism" in Türkiye. It is surrounded by the Mediterranean in the south and the Taurus Mountains extending parallel to the sea in the north. It is surrounded by Mersin, Konya and Karaman provinces in the east, Isparta and Burdur provinces in the north, and Muğla province in the west. Antalya Province, which is in the south of Türkiye, is located within the borders of the Mediterranean Region. Manavgat district, which is the project location, is the second largest district of Antalya province with a surface area of 2283 km².

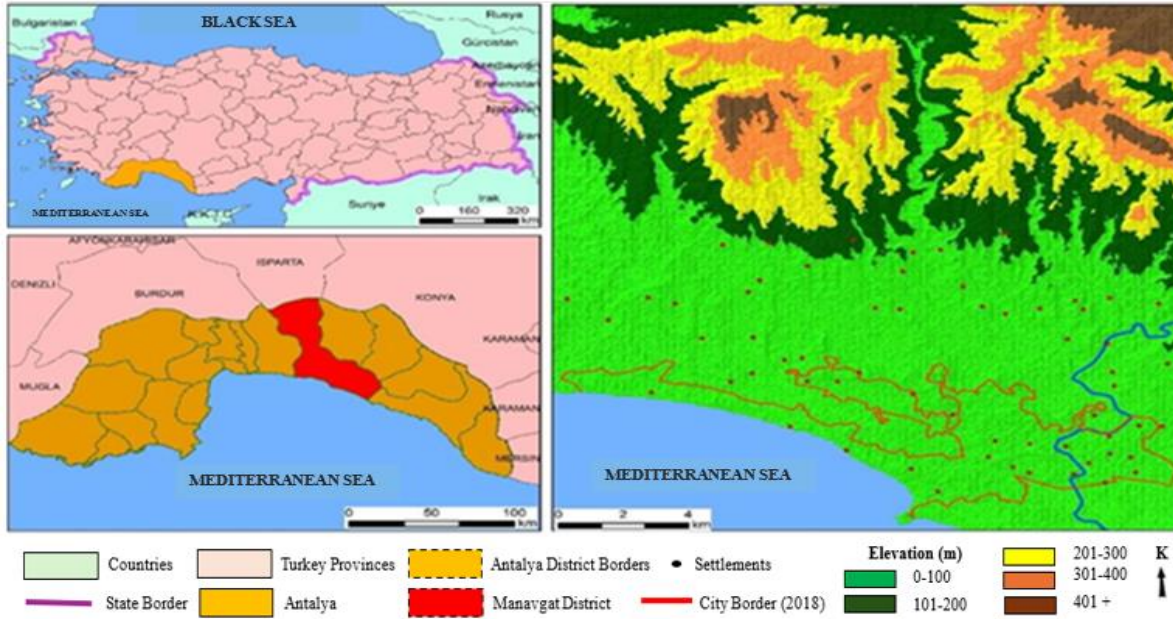


Figure 3: Location Map of Manavgat District

Following the wildfire disaster in 2021, Antalya Drinking Water Rehabilitation Project for Wildfire Areas has been planned to establish infrastructure of the 3 areas located in Manavgat District Centre of Antalya Province. which were affected by the wildfire, improve resistance to natural disasters and to rehabilitate the damaged drinking water network lines. This project is envisaged to be carried out comprising the 3 sub-projects listed in **Table 2**.

Table 2: Antalya Drinking Water Rehabilitation Project for Wildfire Areas

Antalya Drinking Water Rehabilitation Project for Wildfire Areas	
Sub-Project	Sub-Project Title
ASAT4-W1	Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank
ASAT4-W2	Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District
ASAT4-W3	Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts)

The constructions of 3 sub-projects on the Manavgat District Map and Aerial Photos are given in **Figure 4** and **Figure 5**.

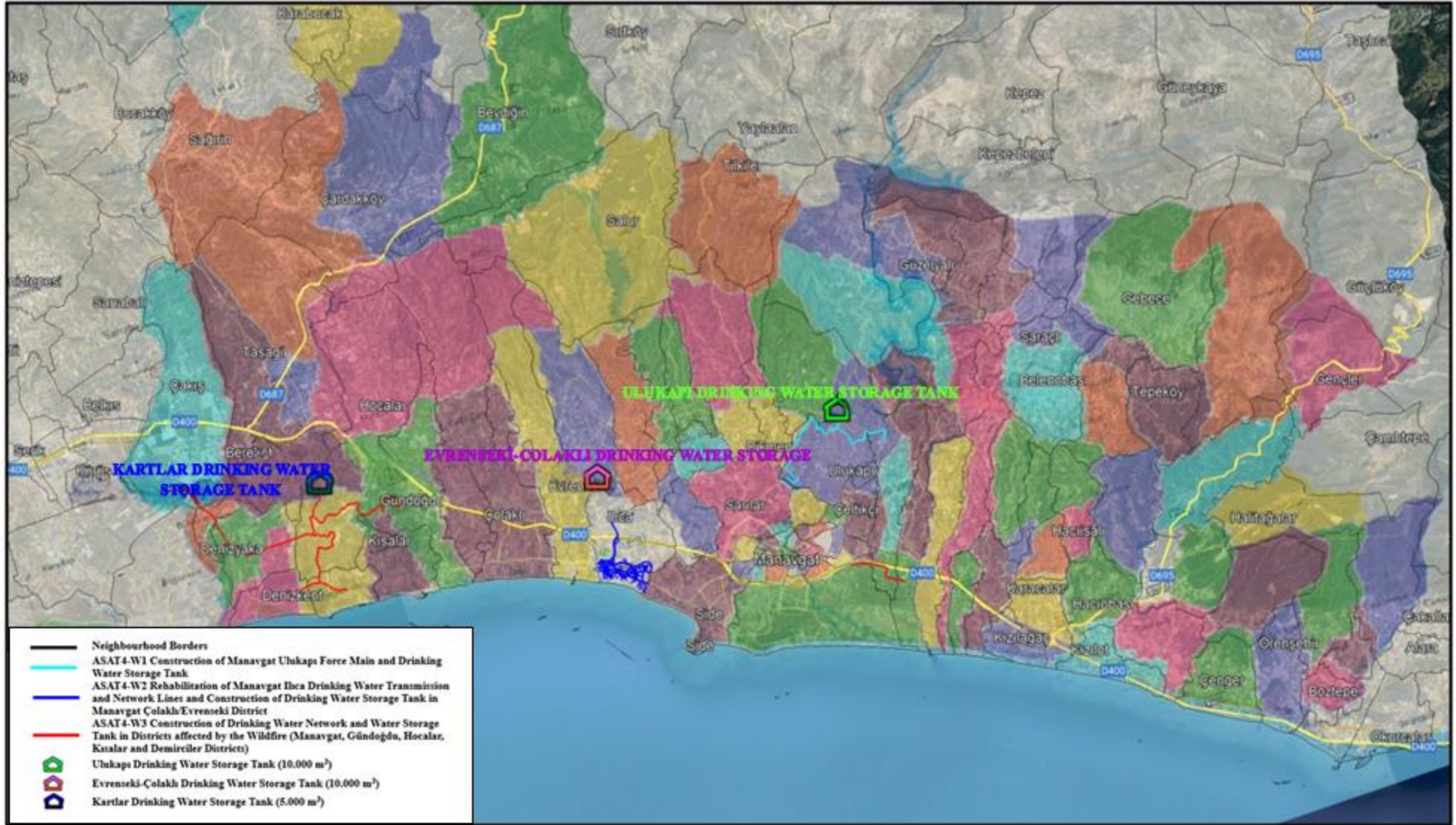


Figure 4: Residential Areas of Manavgat District



Figure 5: Thermal Satellite Images of Project Area

2.1. Ownership Status of Sub-Project Regions

2.1.1. Location of ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank

In Manavgat Ulukapı District, it is planned to construct drinking water force main with a length of approximately 9 km and a drinking water storage tank with a capacity of 10.000 m³.

There will be no land acquisition of private properties within the scope of this sub-project, since there is an existing line on the route where the Force Main will be constructed (**Figure 6**), and zoning/cadastral roads will be used. (There is an existing line connecting from Kuyu district to Ulukapı water storage tank via zoning/cadastral roads. The new Force Main will also be constructed on the same route and there are no permits and/or ownership issues within the scope of the sub-project. Transfer of the Wells Region to ASAT was approved with the letter dated 23.06.2009 and numbered B.07.4.DEF.4.07.80.0.02/07140110700/1490, as presented in Annex-3.)

In addition, the allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the “Final Permission Commitment Document” regarding the allocation of the land with File No. 29-3772 to the General Directorate of ASAT for 49 years is given in Annex-3.

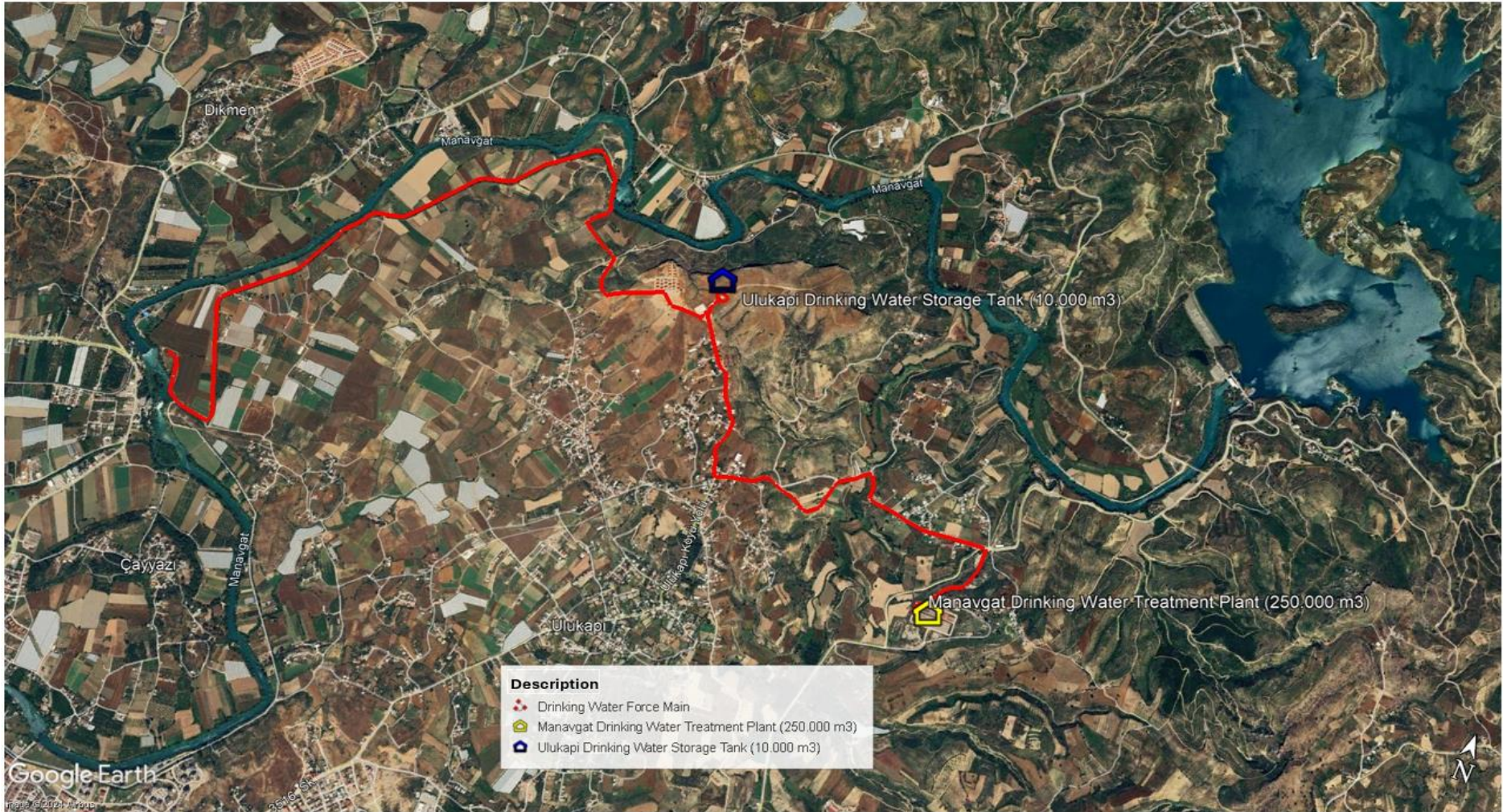


Figure 6: Manavgat Ulukapi Force Main and Drinking Water Storage Tank

2.1.2. Location of ASAT4-W2 Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Çolaklı – Evrenseki District

Within this sub-project, it is planned to rehabilitate the existing Drinking Water Network Lines which are approximately 33 km long in Manavgat Ilca District and construct drinking water storage tank with a capacity of 10.000 m³. (**Figure 7**). The drinking water storage tank will be constructed on the land where the existing drinking water tanks belonging to ASAT General Directorate are located, as given in (**Figure 8**).

Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed on the land belonging to the Ministry of Justice, on Lot 2 of 804 block, where existing drinking water tanks of ASAT General Directorate are located. The allocation process for the land on which the Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed has been completed, and the letter dated 03.07.2024 and numbered E-66844966-400-9857868 regarding the pre-allocation of the land by the Ministry of Justice to the General Directorate of ASAT for a period of 2 (two) years is given in Annex-3. The process regarding the final allocation is carried out by General Directorate of ASAT and there is no obstacle to start the construction with the existing pre-allocation document of 2 years.

Since the rehabilitation works of the sub-project will be carried out for the existing drinking water network lines passing through the zoning roads, there is no need for expropriation and resettlement.

At the point given in (**Figure 9**), transition will be achieved by making a Protocol with the Regional Directorate of Highways during the construction stage, and procedures of the Protocol will be completed by the Contractor before the construction works begin. Following the route transition planning based on the work schedule, Protocol procedures will be carried out under the responsibility of the Contractor and the construction will be completed on the dates specified in the work schedule. All correspondence regarding the Protocol will be performed by ASAT General Directorate, and the Contractor will ensure that the procedures are carried out. All information related to Protocol issues will be stated in both monthly work progress reports and Quarterly E&S Monitoring Reports and will be submitted to ILBANK. All official letters for protocol will be submitted to ILBANK apart from monitoring reports.

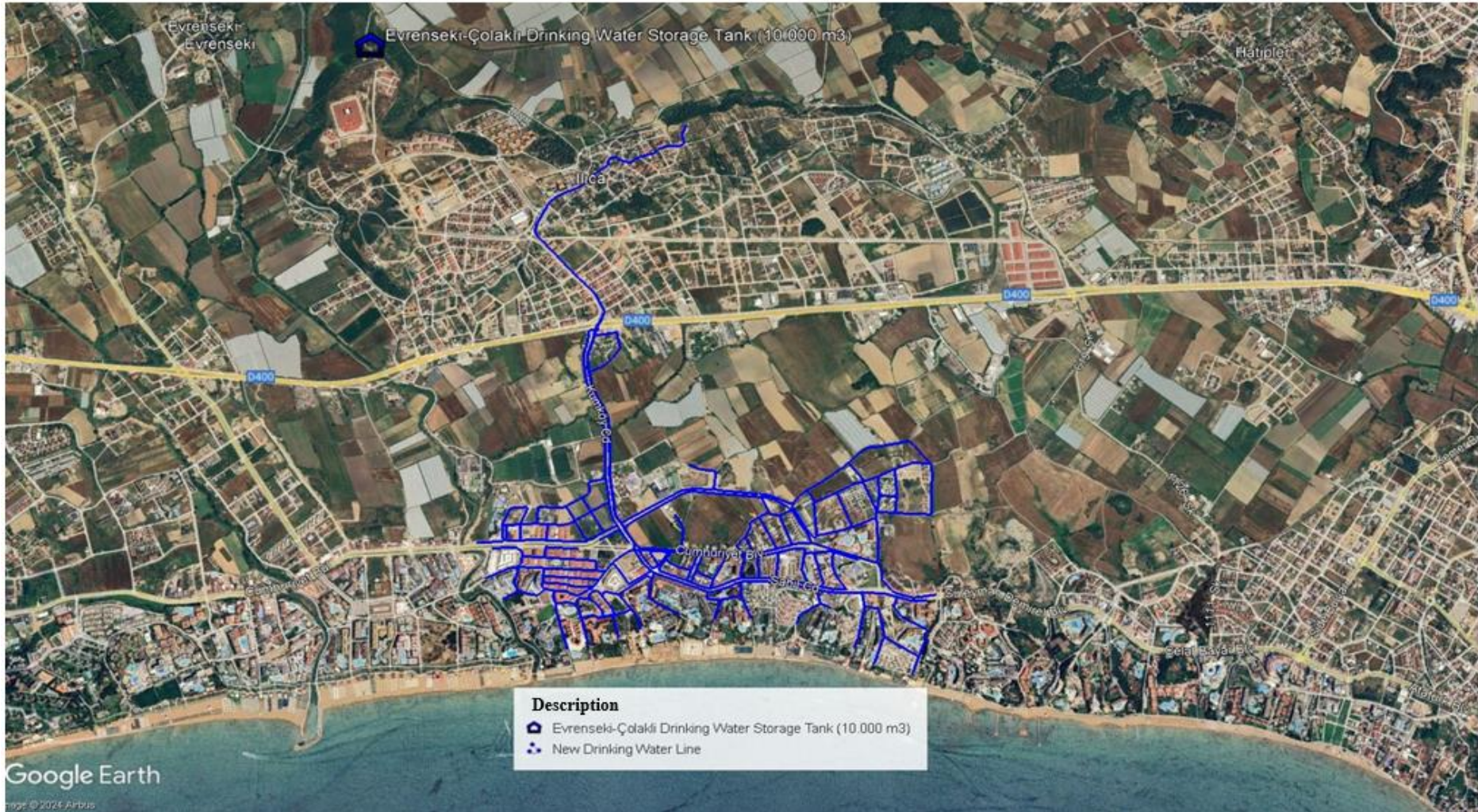


Figure 7: Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines

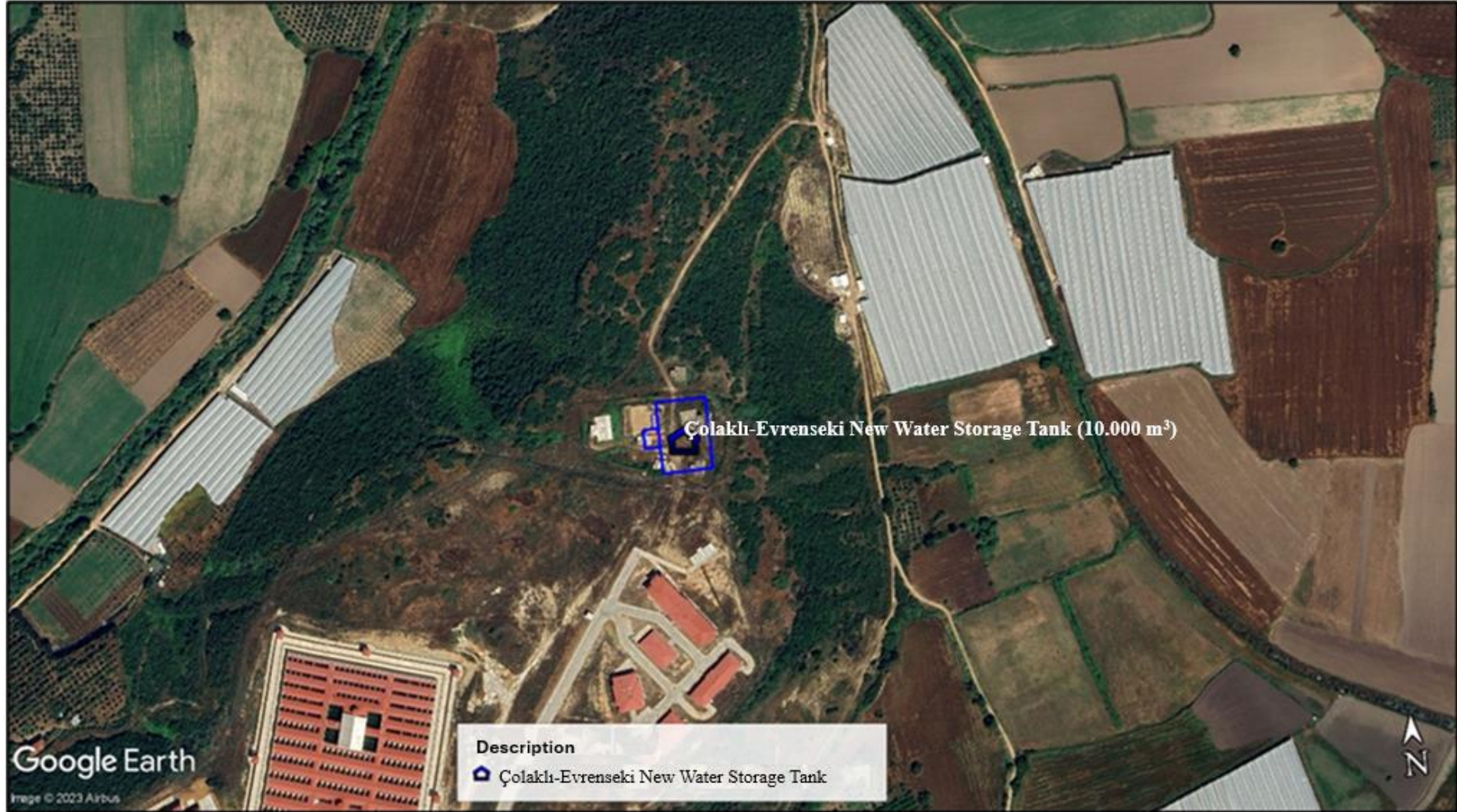


Figure 8: Drinking Water Storage Tank with 10.000 m³ Capacity in Manavgat Çolaklı Evrenseki District



Figure 9: Manavgat Ilıca District Drinking Water Transmission and Network Line (Image of Highway Transition)

2.1.3. Location of ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts)

It is planned to construct a Drinking Water Network Line with a total length of approximately 30 km and a water storage tank with a capacity of 5.000 m³ in Manavgat Gündoğdu, Hocalar, Kısalar and Demirciler Neighbourhoods. Aerial images are given in (Figure 10) and (Figure 11).

Since all the drinking water network lines will pass through zoning/cadastral roads, there is no need for expropriation or resettlement. Kartlar Water Storage Tank will be constructed on the land belonging to the General Directorate of Forestry on Lot 1 and block 554, next to the existing water storage tanks of ASAT General Directorate. Allocation letter information of the land where Kartlar Water Storage Tank will be constructed is presented in (Annex -3) by the letter dated 19.01.2024 and numbered E-94320752-756.02-159576. Also, Cadastral Maps showing existing/new network lines are presented in (Annex-2), and numeric data regarding projects and existing infrastructures are submitted to ILBANK. An official permit letter has been written for the allocation of land Lot 1 and block 554, belonging to the General Directorate of Forestry to the ASAT General Directorate and the allocation procedure has been initiated. When the allocation procedure is completed, the allocation letters which will be received from the General Directorate of Forestry will be submitted to ILBANK.



Figure 10: Drinking Water Storage Tank and Network Line in Districts affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar Districts)



Figure 11: ASAT4-W3 Manavgat Demirciler Neighborhood Drinking Water Network Line

The constructions to be carried out between points C-D given in **Figure 11** are channel parcels belonging to the General Directorate of State Hydraulic Works which are not privately owned. Before the construction works begin, the Contractor will make the necessary Protocol procedures for the transition with the State Hydraulic Works Regional Directorate. Following the route transition planning based on the work schedule, Protocol procedures will be carried out under the responsibility of the Contractor and the construction within these parcels will be completed on the dates specified in the work schedule. All correspondence regarding the Protocol will be performed by ASAT General Directorate, and the Contractor will ensure that the procedures are carried out. All information related to Protocol issues will be stated in both monthly work progress reports and Quarterly E&S Monitoring Reports and will be submitted to ILBANK. All official letters for protocol will be submitted to ILBANK apart from monitoring reports.

2.2. Water Resources in Sub-Project Region

In the Manavgat Region, there are important streams such as Manavgat Stream, Köprüçay Stream, Karpuzçay Stream and Alara Stream, which have high flows even though they are short in length. All these streams flow into the Mediterranean. Manavgat Stream, which is one of the most important streams in the region, passes through the construction area of ASAT4-W1 Contract and the upstream part of the ASAT4-W3 Contract passes near Köprüçay Stream. The construction area of ASAT4-W2 Contract will be located close to the seashore and it is not close to any other water resource. Relevant water resources and project areas are given in (**Figure 12**), (**Figure 13**) and (**Figure 14**). However, since the mentioned works will be construction of drinking water network lines, it is envisaged that there will not arise any high-risk environmental impacts, although some of the works may have negative impacts on water quality in case of inadequate construction material and waste management.

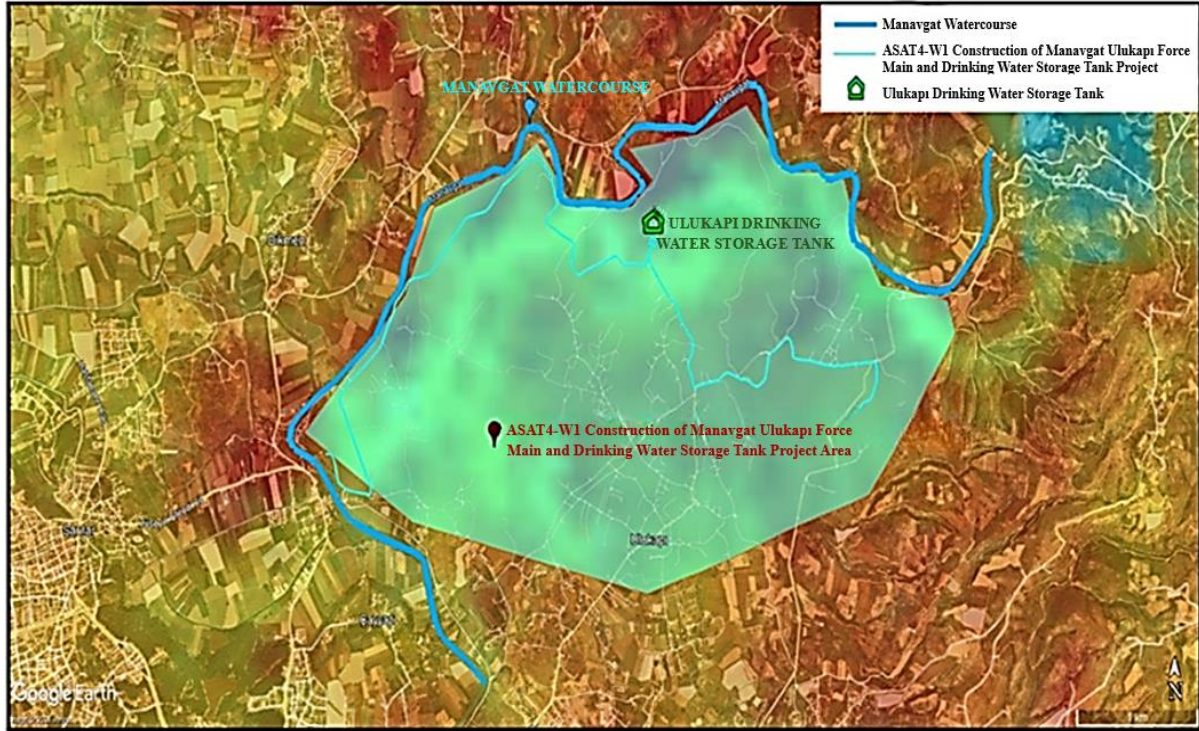


Figure 12: Thermal Satellite Image of ASAT4-W1 Project Area and Manavgat Stream

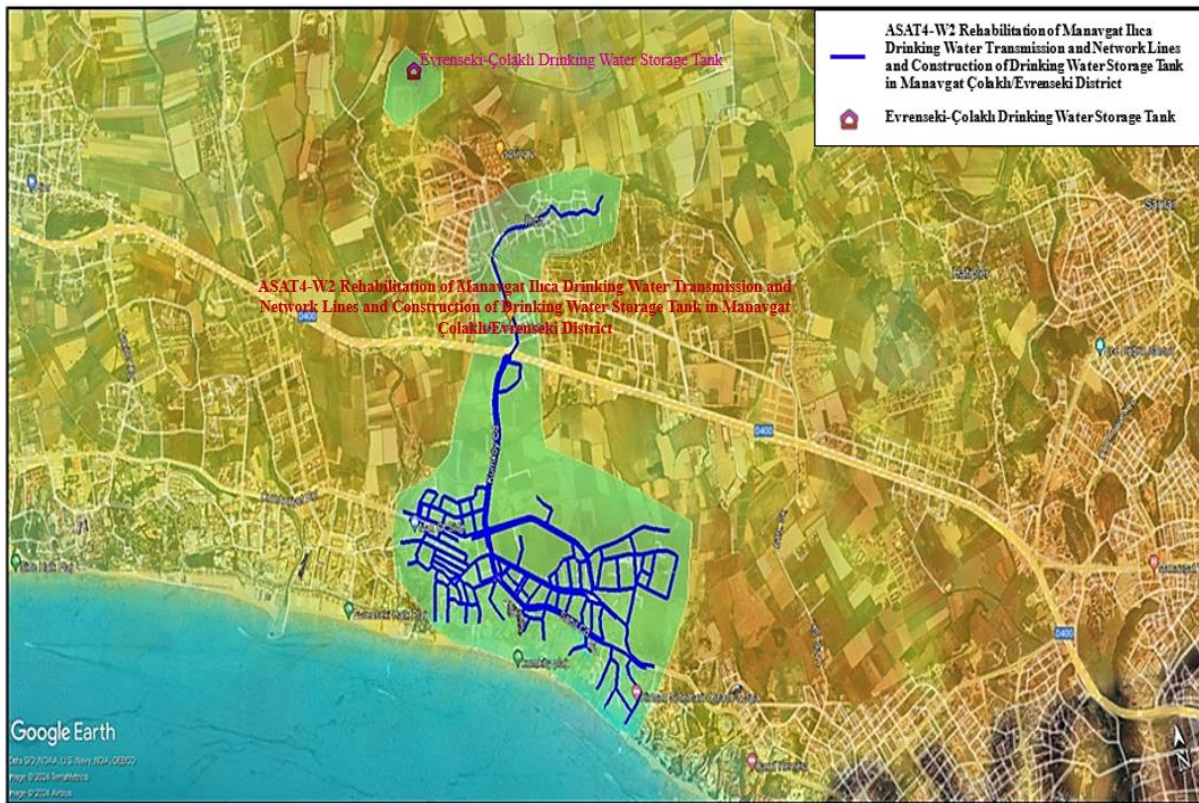


Figure 13: Thermal Satellite Image of ASAT4-W2 Project Area

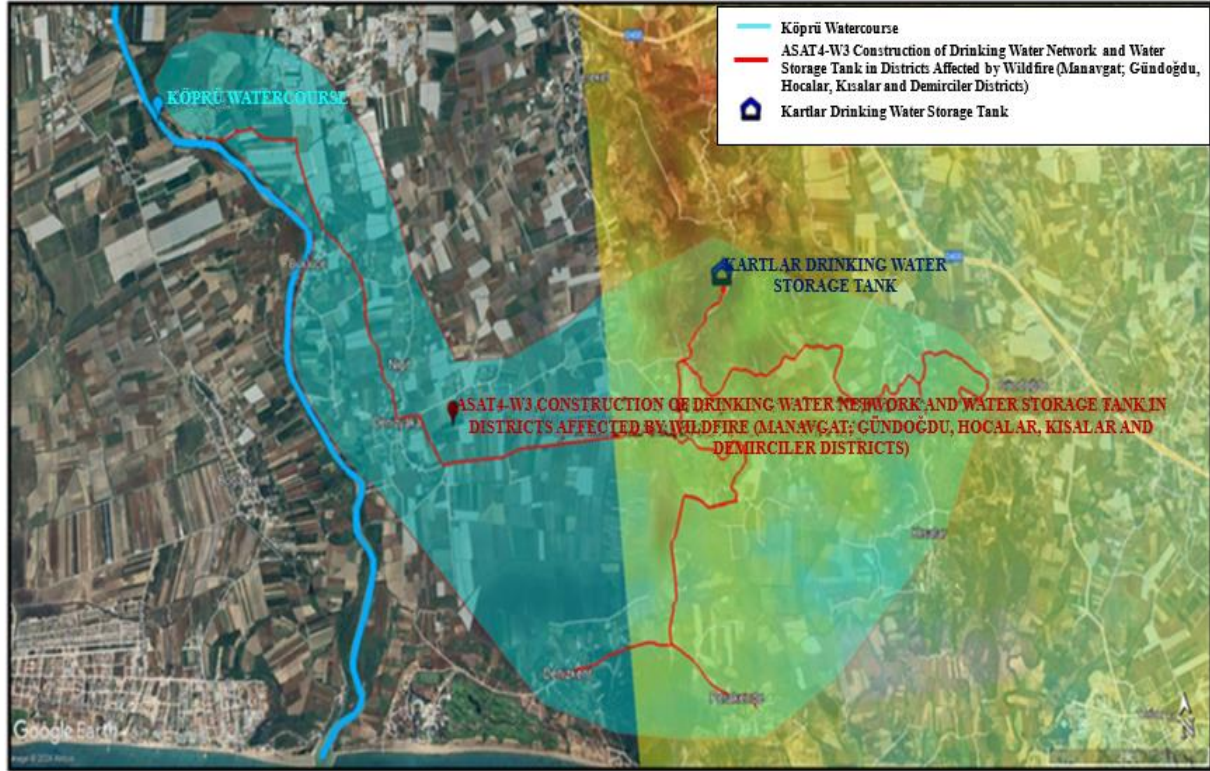


Figure 14: Thermal Satellite Image of ASAT4-W3 Project Area and Köprüçay Stream

2.3. Climate Characteristics in Sub-Project Regions

Manavgat and its surroundings have a typical Mediterranean climate, with hot and dry summers and warm and rainy winters. Frost occurs only a few days throughout the year. In some years, it has been observed that there is no frost at all.

2.3.1. Temperature

According to meteorological data in **Table 3**, it is observed that annual average temperature is 18.8 °C, the lowest average temperature is 6.0 °C in January, and the highest average temperature is 34.2 – 34.1 °C in July and August in the 3 sub-project areas in Manavgat District. Temperatures in the district rise rapidly starting from March and reach a peak in July and August. Temperatures in January, February, March, April, November, and December are lower than the annual average.

Table 3: Manavgat District Climate Data Table

ANTALYA	January	February	March	April	May	June	July	August	September	October	November	December	Yearly
Measurement Period (1930-2022)													
Average Temperature (°C)	10,0	10,7	12,9	16,4	20,6	25,3	28,5	28,4	25,3	20,6	15,5	11,7	18,8
Average Highest Temperature (°C)	14,9	15,6	17,9	21,4	25,7	30,7	34,2	34,1	31,2	26,6	21,3	16,7	24,2
Average Lowest Temperature (°C)	6,0	6,4	8,0	11,2	15,3	19,6	22,8	22,8	19,5	15,3	10,8	7,7	13,8
Average Sunshine Time (hours)	5,1	5,8	6,7	8,0	9,8	11,4	11,8	11,3	9,8	7,9	6,3	4,9	8,2
Average Number of Rainy Days	12,57	1,53	8,61	6,49	5,17	2,55	0,54	0,56	1,72	5,49	7,45	11,91	73,60
Average Monthly Total Precipitation Amount (mm)	234,9	151,8	91,7	49,3	32,4	11,0	4,5	4,4	17,1	71,5	129,5	256,8	1054,9
Measurement Period (1930-2022)													
Highest Temperature (°C)	23,9	26,7	28,6	36,4	41,7	44,8	45,0	44,8	42,5	41,2	33,0	25,4	45,0
Lowest Temperature (°C)	-4,3	-4,6	-1,6	1,4	6,7	11,1	14,8	13,6	10,3	4,9	0,0	-1,9	-4,6

2.3.2. Precipitation Conditions

The average annual precipitation of Manavgat is calculated as 1117,7 mm according to **Table 4**. The most precipitation occurs in January (251,3 mm) and the least precipitation occurs in July (1,7 mm). The amount of precipitation decreases from December to July, and it starts to increase starting from August as given in **Figure 15**. When the distribution of precipitation over the seasons is analysed, most of the precipitation occurs in the winter season. All the precipitation in the region is in the form of rain. During seasonal transition periods, hail may occur a total of 1-2 days per year. Snowfall is not observed. Snow can be seen in the higher parts of the Taurus Mountains.

Table 4: Precipitation Amounts in Manavgat District

MONTHS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
(mm)	251,3	155,6	101,8	55,3	21,6	8,4
MONTHS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
(mm)	1,7	1,8	10,0	92,5	188,7	229,0

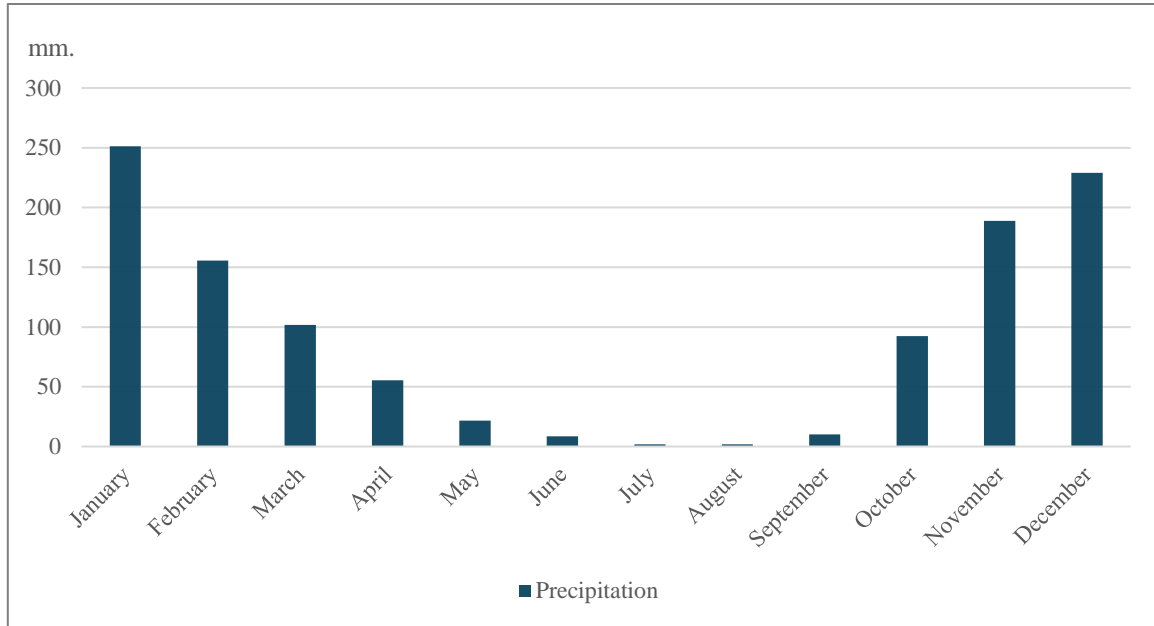


Figure 15: Monthly Distribution of Precipitation in Manavgat District

2.4. Socio Economic Baseline in Sub-Project Areas

Although the economy of the district is based on tourism and, accordingly, trade in the centre and some neighbourhoods that were previously in town status, it is based on agriculture in rural areas (old villages and towns). Tourism and agriculture constitute the most important basis of economic activity in Manavgat District, and these sectors are also the most important source of economic livelihood. Manavgat Plain is the most fertile plain of Antalya Province with its fertile area of approximately 2,500 km². Besides agricultural production in the fields of grain, industrial plants, greenhouse, and open field vegetable growing, fodder crops, fruit growing - especially citrus fruits - and ornamental plants, cattle and sheep breeding are also significant. Although the industry is not very developed, there are small and medium-sized enterprises based on agriculture and trade throughout the district.

2.4.1. Demography and Population

According to data of the Address Based Population Registration System (ABPRS) of Turkish Statistical Institute (TURKSTAT), population of Manavgat district in 2023 is 258.367 as given in **Table 5**, and it is the 4th largest district of Antalya after Kepez, Muratpaşa and Alanya in terms of population. Also, with total of 106 neighbourhoods, it is the district with the highest number of neighbourhoods. The population of the 16 neighbourhoods within the scope of the project is 74.034 (2023). The population of these neighbourhoods is expected to be 248.600 in 2053 at the end of the economic life of the subprojects.

Table 5: Population Development by Years, Antalya and Manavgat

Year	Population of Antalya	Population of Manavgat	Percentage of Manavgat Population in Antalya Population (%)
2008	1.859.275	179.311	9,64
2013	2.158.265	208.526	9,66
2018	2.426.356	230.597	9,50
2019	2.511.700	241.011	9,59
2020	2.548.308	242.490	9,51
2021	2.619.832	245.740	9,37
2022	2.688.004	252.941	9,40
2023	2.696.249	258.367	9,58

According to data in **Table 6**, the percentage of Manavgat population in Antalya population is 9.58% for 2023. The area of Manavgat is 2283 km² and population density is 113 person/km² as of 2023. This number is above the population density of Türkiye (111 person/km²).

The annual population growth rate of Manavgat in the 2022-2023 period is 21.23%, which is above the population growth rate of Türkiye, which is 1.1%. However, in the last 10 years, there has been a decrease of 43 % in the population growth rate of the district.

Table 6: Population of Antalya and Manavgat and Population Growth Information Per Years (2009-2020)

Year	Population		Proportion of Manavgat Population in the overall Population of Türkiye	Population Growth Rate (%)	
	Antalya	Manavgat		Antalya	Manavgat
2023	2.696.249	258.367	9,58	3,06	21,23
2022	2.688.004	252.941	9,40	25,69	28,88
2021	2.619.832	245.740	9,37	27,68	13,31
2020	2.548.308	242.490	9,51	14,47	6,12
2018	2.426.356	230.597	9,50	25,87	18,39
2016	2.328.555	224.664	9,64	17,37	10,04
2014	2.222.562	215.526	9,69	29,36	33,02
2013	2.158.265	208.526	9,66	30,93	37,30

2012	2.092.537	201.027	9,60	23,72	36,93
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. Manavgat has approximately an average household size of 3.07. The population living in the 3 sub-project areas is 74,034, and it is possible that number of 74,034 residents will be particularly affected by the works which will be carried out during the project.

As given in **Figure 16**, although the gender distribution of the province presents substantially close rates, the male population is higher than the female population based on years.

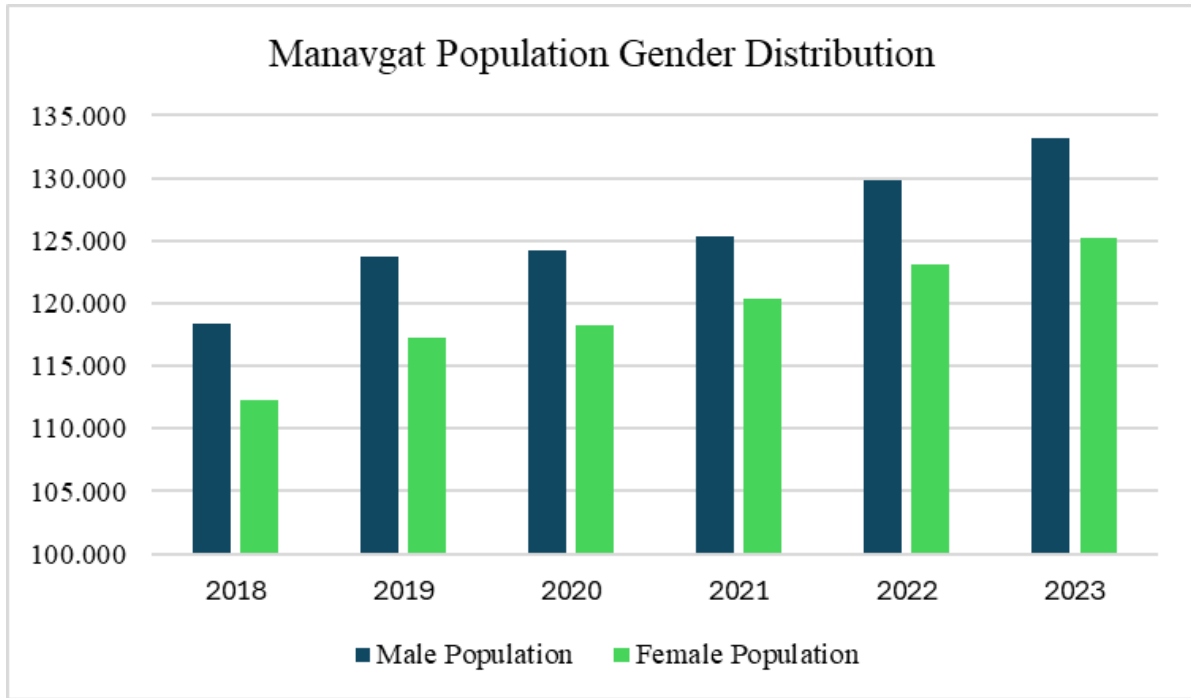


Figure 16: Manavgat Population Gender Distribution by Years (2018-2023)

2.4.1.1. Population Distribution of Neighbourhoods of Previous Years in Sub-Project Regions

Within the scope of Antalya Drinking Water Rehabilitation Project for Wildfire Areas, the neighbourhoods of Manavgat where the construction works will be carried out and their population data of the previous years are given below in **Table 7**.

Table 7: Population Data of Neighbourhoods in Sub-Project Regions

A. PAZARCI		ÇELTİKÇİ		ÇOLAKLI		DENİZKENT	
Year	Population	Year	Population	Year	Population	Year	Population
2012	8.847	2012	1.952	2012	5.912	2012	308
2013	8.940	2013	2.075	2013	6.601	2013	367
2014	8.929	2014	2.260	2014	6.883	2014	328
2015	8.972	2015	2.344	2015	6.878	2015	304
2016	8.696	2016	2.283	2016	6.576	2016	331
2017	8.525	2017	2.269	2017	6.450	2017	305
2018	8.298	2018	2.240	2018	6.483	2018	307
2019	8.624	2019	2.422	2019	6.624	2019	299
2020	8.580	2020	2.576	2020	6.516	2020	290
2021	8.492	2021	2.629	2021	6.717	2021	287
2022	8.659	2022	2.753	2022	7.190	2022	288
2023	8.704	2023	2.830	2023	7.404	2023	302
HATIPLER		HOCALAR		ILICA		KISALAR	
Year	Population	Year	Population	Year	Population	Year	Population
2012	2011	2012	564	2012	4.810	2012	260
2013	2.201	2013	555	2013	5.103	2013	261
2014	2.381	2014	550	2014	5.497	2014	270
2015	2.725	2015	536	2015	6.044	2015	255
2016	2.801	2016	530	2016	6.273	2016	260
2017	2.757	2017	509	2017	6.607	2017	282
2018	2.730	2018	547	2018	7.134	2018	342
2019	2.990	2019	545	2019	7.891	2019	298
2020	3.107	2020	526	2020	8.394	2020	279
2021	3.216	2021	524	2021	9.068	2021	275
2022	3.477	2022	513	2022	10.754	2022	268
2023	3.658	2023	520	2023	12.211	2023	274
KIZILAĞAÇ		ÖRNEK		PERAKENDE		SALKIM EVLER	
Year	Population	Year	Population	Year	Population	Year	Population
2012	2.179	2012	6.094	2012	161	2012	2.179
2013	1.786	2013	6.282	2013	179	2013	2.381

2014	1.911	2014	6.482	2014	186	2014	2.599
2015	2.029	2015	6.492	2015	170	2015	2.765
2016	1.996	2016	6.567	2016	154	2016	2.819
2017	1.945	2017	6.560	2017	155	2017	2.780
2018	1.902	2018	6.537	2018	241	2018	2.846
2019	2.142	2019	6.793	2019	181	2019	3.097
2020	2.052	2020	6.937	2020	170	2020	3.151
2021	2.194	2021	6.886	2021	158	2021	3.101
2022	2.343	2022	7.004	2022	160	2022	3.497
2023	2.658	2023	6.981	2023	205	2023	3.708
ULUKAPI		Y. PAZARCI		YAVRUDOĞAN		YAYLA	
Year	Population	Year	Population	Year	Population	Year	Population
2012	2.738	2012	5.407	2012	1.509	2012	11.002
2013	2.881	2013	5.603	2013	1.616	2013	11.381
2014	3.029	2014	5.694	2014	1.660	2014	11.549
2015	3.167	2015	5.657	2015	1.781	2015	11.948
2016	3.277	2016	5.953	2016	1.773	2016	12.116
2017	3.312	2017	6.013	2017	1.711	2017	12.162
2018	3.266	2018	5.994	2018	1.788	2018	12.026
2019	3.368	2019	6.206	2019	1.703	2019	12.797
2020	3.457	2020	6.336	2020	1.754	2020	12.998
2021	3.476	2021	6.319	2021	1.757	2021	12.938
2022	3.545	2022	6.391	2022	1.749	2022	13.035
2023	3.689	2023	6.206	2023	1.849	2023	12.835

2.4.2. Vulnerable and Disadvantaged Groups

Disadvantaged/Vulnerable groups/individuals (disabled people, elderly people, immigrants, foreign- nationals, children, women) is identified through the SEP for sub-projects, and non-governmental organizations and local government representatives residing or working in the project areas will also be considered as stakeholders.

All kinds of written or printed materials related to the project which will be distributed in the project site will be accessible to the disadvantaged /vulnerable individuals/groups, and these materials will also be prepared in culturally appropriate and easy-to-understand (non-technical) language. In addition, passageways and bridges connecting the construction site and residential areas will be established for disabled and elderly citizens to provide easy access to vehicles used by vulnerable citizens such as wheelchairs. Occupational safety measures will be increased for disadvantaged groups living in the surrounding area of the project site.

2.4.3. Education

There are 5 educational institutions in total that may be affected as a result of the activities to be carried out in the Sub-Project regions.

- Since ASAT4-W1 project area isn't located in the residential area, there is no educational institution.
- There are 1 pre-school, 1 secondary school and 1 high school in ASAT4-W2 project area. In these educational institutions, education activities are carried out with a total of 1283 students, 63 teachers and 39 classrooms.

There are 1 primary school and 1 secondary school in the ASAT4-W3 project area. Education activities are carried out in these educational institutions with a total of 110 students, 16 teachers and 42 classrooms.

2.4.4. Health

There are 1 public hospital, 1 oral and dental health center, 4 private hospitals, 26 family health center in Manavgat District. There is no health institution in ASAT4-W1 and ASAT4-W3 project areas, and Manavgat İlica Family Health Center provides service in ASAT4-W2 project area.

2.4.5. Means of Livelihood and Employment

The economy of the district is based on tourism and trade in the center and some neighbourhoods, while it is based on agriculture in rural areas (old villages and towns). Tourism and agriculture constitute the most important basis of economic activity in Manavgat district, and these sectors are also the most important source of economic livelihood. There are many seasonal residences (for summer and winter) in Manavgat district, along with many large and small-scale tourism facilities. These tourism structures in the region provide job opportunities

and employment for many families. The contribution of the region's tourism to the country's economy is considerable.

Manavgat Plain is the most fertile plain of Antalya province with its fertile area of approximately 2,500 km². Besides agricultural production in the fields of grain, industrial plants, greenhouse, and open field vegetable growing, fodder crops, fruit growing - especially citrus fruits - and ornamental plants, cattle and sheep breeding are also significant. Although the industry is not very developed, there are small and medium-sized enterprises based on agriculture and trade throughout the district.

2.4.5.1. Tourism

On the 64 km coastline of Manavgat District, where the Sub-Project Areas are located, there are;

- Titreyengöl, Side, Ilıca, Çolaklı, Evrenseki and Gündoğdu tourism areas,
- Tourism area allocated by the Ministry of Forestry in the village of Manavgat Kızılağaç,
- The areas of Evrenseki, Çolaklı, Gündoğdu towns and Kısalar, Perakende, Denizyaka villages between the D-400 highway and the coast in the Special Environmental Protection Area,

The facilities in this area provide service to approximately 1/3 of the tourists coming to Antalya. In these different tourism areas, different opportunities such as nature tourism, cultural tourism, sports tourism are offered. The ASAT4-W2 Project will be carried out in the hotels area of Ilıca centre, and the tourism sector has developed in this area. ASAT4-W1 Project and ASAT4-W3 Project areas are in more rural areas.

2.4.5.2. Agriculture and Livestock

Agricultural land constitutes 17.68% of the total land area of Manavgat district. Meadows and pastures constitute 7,66% of the total area of the district and forests and non-agricultural lands (lands planned for industrial, tourism, recreation, settlement, infrastructure and similar purposes) constitute 74,66% (Table 8) ASAT4-W2 Project will be constructed in Ilıca city centre hotels area and the tourism sector is intense in this area. For this reason, agriculture and animal husbandry activities are not common. ASAT4-W1 and ASAT4-W3 Project regions are located in more rural areas and agriculture and animal husbandry are carried out in these regions.

Table 8: Land Distribution in Manavgat¹

Type	MEASUREMENT	
Agricultural Land	Quantity (ha)	42.336
	Ratio (%)	17,68
Meadows and Grasslands	Quantity (ha)	26.454,2
	Ratio (%)	11
Forest and Non-agricultural Lands (lands planned for industrial, tourism, recreation, settlement, infrastructure and similar purposes)	Quantity (ha)	170.633,393
	Ratio (%)	71,32
Total Area		239.423,593

2.4.5.3. Industry and Trade

Industry and trade also have a significant place in the economy of Manavgat. In Manavgat, trade is mostly carried out through tourism and agriculture, while industry is mainly based on agriculture.

2.4.6. Transportation and Traffic

The connection of Manavgat district with other centers is provided only by highway. Manavgat is located on the D-400 highway. D-400 Highway is also the Aegean Mediterranean coastal road and is important and busy in terms of connecting the two regions." Manavgat District provides transportation advantages as it is close to Antalya (72 km) and Gazipaşa (102 km) airports and Antalya (95 km) and Alanya (60 km) ports.

General Directorate of Highways, Antalya Metropolitan Municipality and Manavgat Municipality constantly carry out road construction and maintenance work on rural settlement roads in the district. In recent years, many village roads have been asphalted. Transportation or passenger transport between Manavgat and all its districts is in good condition.

2.4.7. Cultural Heritage

Side Ancient City and Köprülü Canyon National Park are in the ASAT4-W1, ASAT4-W2 and ASAT4-W3 sub-project regions within the borders of Manavgat District. By the analysis via Google Earth, it is seen that the construction area of ASAT4-W1 project, one of the mentioned projects, is approximately 8.04 km away from the Side Ancient City settlement area (air distance), and the transportation distance is longer. Also, it is seen that the altitude difference between the ASAT4-W1 construction area and Side Ancient City is up to 112 meters (**Figure**

¹ Manavgat Chamber of Commerce and Industry 2023 Economic Report

17). The air distance of the ASAT4-W1 project area to Köprülü Canyon National Park is approximately 48.6 km, and the altitude difference between them is up to 3029 meters. (**Figure 18**).

By the analysis via Google Earth, it is seen that the construction area of ASAT4-W2 project, one of the mentioned projects, is approximately 4.43 km away from the Side Ancient City settlement area (air distance), and the transportation distance is longer. Also, it is seen that the altitude difference between the ASAT4-W2 construction area and Side Ancient City is up to 40.2 meters. (**Figure 19**). The air distance of the ASAT4-W2 project area to Köprülü Canyon National Park is approximately 44.7 km, and the altitude difference between them is up to 2267 meters. (**Figure 20**).

By the analysis via Google Earth, it is seen that the construction area of ASAT4-W3 project, one of the mentioned projects, is approximately 18,6 km away from the Side Ancient City settlement area (air distance), and the transportation distance is longer. Also, it is seen that the altitude difference between the ASAT4-W3 construction area and Side Ancient City is up to 73.9 meters. (**Figure 21**). The air distance of the ASAT4-W2 project area to Köprülü Canyon National Park is approximately 37,5 km, and the altitude difference between them is up to 1464 meters. (**Figure 22**).

As it is seen in the figures and explained above, since the construction sites are far from the natural and cultural areas and infrastructure works have already been carried out in these locations, it is not foreseen to encounter any cultural assets in these construction areas, and in case of an unforeseen situation during the construction period, the Chance Find Procedure (Annex 4) will be followed.



Figure 17: Air Distance Between ASAT4-W1 Project Area and Side Ancient City



Figure 18: Air Distance Between ASAT4-W1 Project Area and Köprülü Canyon National Park

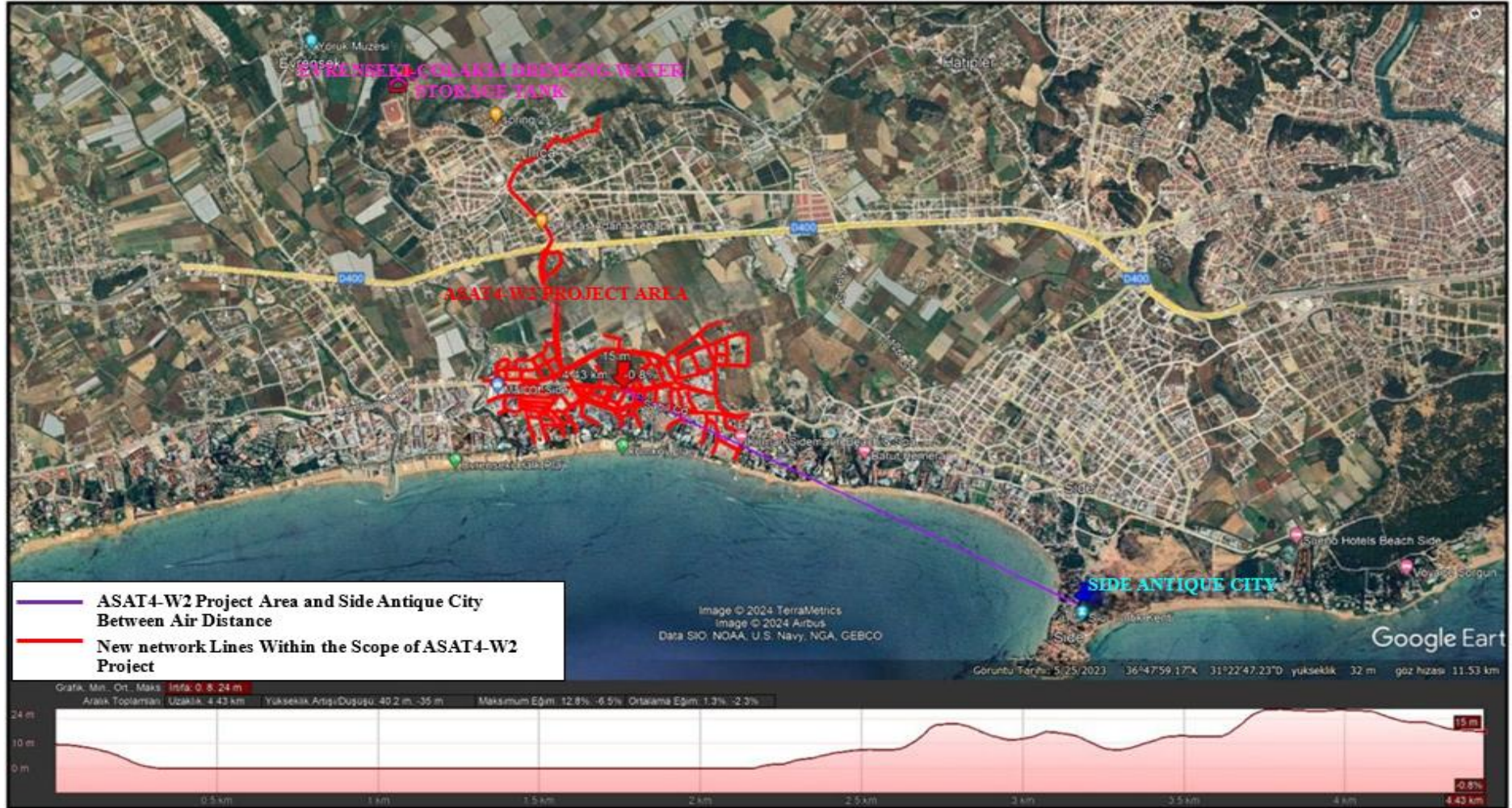


Figure 19: Air Distance Between ASAT4-W2 Project Area and Side Ancient City



Figure 20: Air Distance Between ASAT4-W2 Project Area and Köprülü Canyon National Park

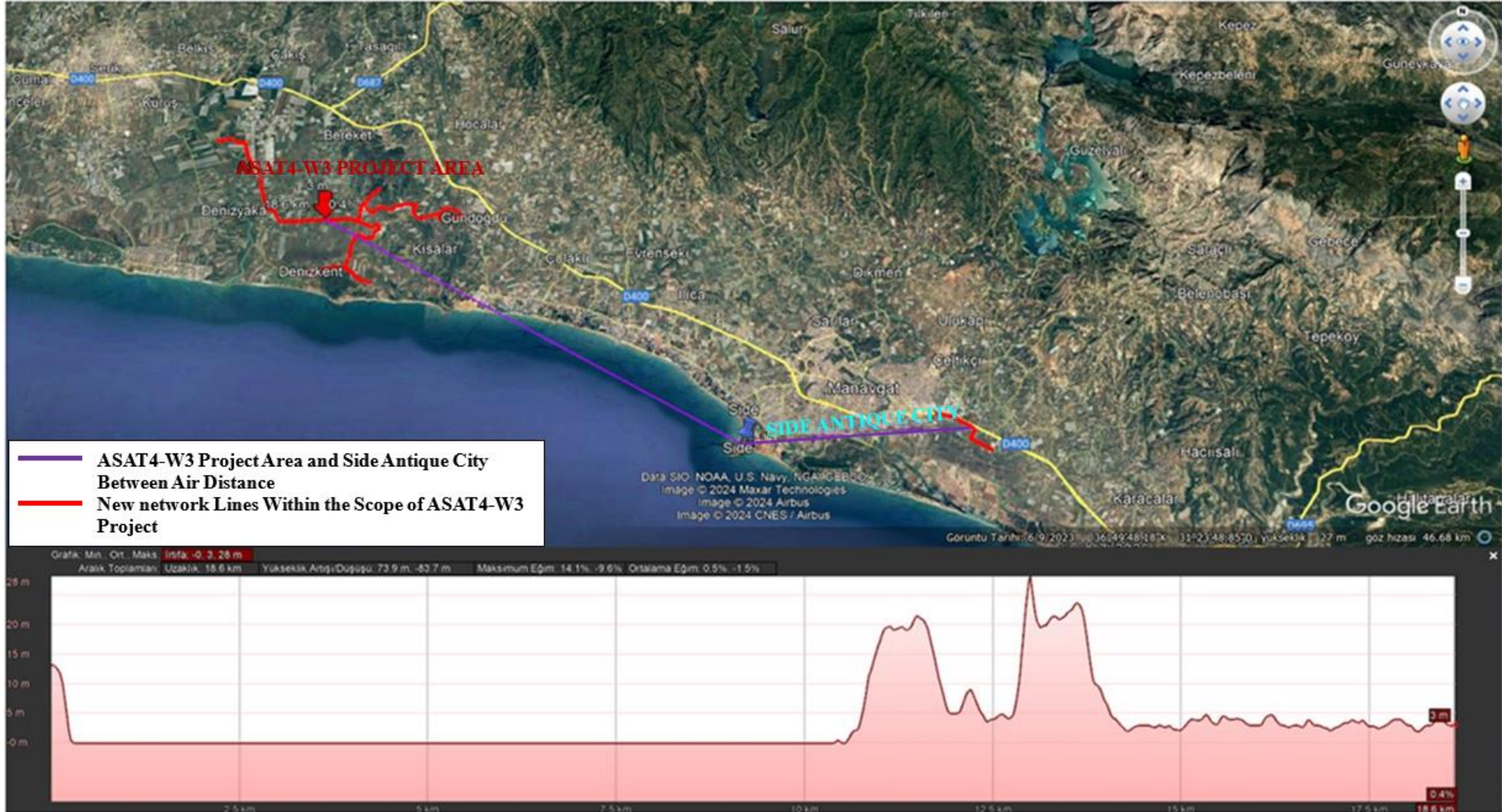


Figure 21: Air Distance Between ASAT4-W3 Project Area and Side Ancient City



Figure 22: Air Distance Between ASAT4-W3 Project Area and Köprülü Canyon National Park

2.5. Flora

ASAT4/W1 construction area is in the foothills of the Taurus Mountains and includes meadows, pastures, maquis, and forest areas. ASAT4/W2 construction area is in Ilica centre, and network lines will be constructed in the area close to the seashore. Shrub and maquis plant species are mostly found on the coastline. The ASAT4/W3 construction area is in the foothills of the Taurus Mountains and includes meadows, pasture areas, maquis, and forest areas. There are not any endemic plant species specific to that region in all 3 project regions.

2.6. Accommodation Conditions of the Contractors Workers

Since the bidding processes for all Sub-Projects have not been completed and the contractor has not been determined, it is foreseen that the type of accommodation for the workers may vary. It is estimated that an average of 60 people may work. The workers may use the houses in the region for accommodation or a camp site may be established for the workers.

In case of the establishment of accommodation camp in the construction site for the Workers, a camp plan and the camp site will be established by the successful bidder in accordance with the 'Workers' Accommodation: Processes and Standards' jointly developed by the International Finance Corporation (IFC) and the European Bank for Reconstruction and Development (EBRD). If it is necessary to provide a campsite for workers for accommodation, the number of workers to stay in the campsite will be determined during pre-construction and construction stage.

3. SUB-PROJECT DESCRIPTION AND ACTIVITIES

General Directorate of ASAT analysed the infrastructures of the areas affected by the wildfire and determined the urgent needs in these regions. As a result of the needs which emerged as a result of the wildfire disaster in the 3 areas given in **Figure 23**, it is planned to rehabilitate, reconstruct, and strengthen the infrastructure by incorporating the principles of green environment and resilience. Also, it is aimed to strengthen the disaster resilience capacity of the region and to create the infrastructure and superstructure components that will be needed to respond immediately and effectively in case of any crisis or emergency. The scope and rationality of the project for each sub-region are given in the sections below.



Figure 23: Project Areas on Thermal Satellite Images

3.1. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank

Ulukapı Wells region is among the main drinking water sources feeding the Manavgat Centre. In Ulukapı Manavgat Wells region, there are 11 existing boreholes with efficiencies ranging from 36 lt/sec to 75 lt/sec. With the existing Ø600 mm Force Main, the current Ulukapı drinking water storage tank is fed. These sources meet the water needs of the residents living in the eastern part of the Manavgat Stream. However, although the drinking water source capacity in the region is sufficient, considering both the future population projection and the disaster situations as experienced during the wildfire period, it has been agreed that the existing water storage tank and transmission line shall be increased. Due to this situation, it is planned to construct approximately 6 km Force Main with a DN1000 mm diameter and an additional drinking water storage tank with a 10,000 m³ capacity for the transmission of drinking water with a flow rate of 750 lt/sec, which will be obtained with the addition of 4 more new drilling by the General Directorate of ASAT with its own resources. It is also planned to connect the new 10.000 m³ water storage tank with the Ø 1000 mm diameter approximately 3 km pumping drinking water network line incoming from Manavgat drinking water treatment plant and connect this network line to the water storage tank.

With the planned project, considering the future population projection, the drinking water need of Ulukapı District, which was affected by the wildfire, will be covered. In addition, with the new water storage tank to be constructed, both water needs of the local public and requirements that are necessary for wildfire, disaster and emergency situations will be met.

3.2. ASAT4-W2 Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Çolaklı/Evrenseki Districts

Drinking water transmission and network line in Ilıca Neighbourhood, Kumköy District has completed its useful life, and healthy drinking water cannot be supplied in the region due to the breakdowns experienced during the year. To prevent water shortage problems due to breakdowns in the network lines in the mentioned area and because of increased consumption, especially during the tourism season, it is planned to rehabilitate and strengthen the infrastructure of network and transmission lines with diameters ranging from approximately 33 km DN110 ~ DN700 mm.

In Manavgat, drinking water needs are currently met with drinking water storage tanks with a capacity of 2.000 m³ in Evrenseki district and 1.000 m³ in Çolaklı district. These water storage tanks are placed on the property allocated to General Directorate of ASAT on an area of approximately 6.250 m², and there are 2 more drinking water storage tanks located in this area, which are not used. After of demolition of these unused structures it is planning to construct a water storage tank with a capacity of 10.000 m³ at the empty area which will be created on the property that is currently used by ASAT. Considering the land conditions of the Manavgat area, the mentioned land is in the most suitable location in terms of feeding the drinking water network. With the evaluation of existing resources, it is aimed to meet the drinking water needs of Manavgat Centre Neighbourhoods with sufficient capacity and to provide water reserves to be used in emergency cases.

3.3. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts affected by the Wildfire (Manavgat Gündoğdu, Hocalar, Kısalar and Demirciler Districts)

In the current situation, drinking water capacity of 200 l/sec is supplied by General Directorate of ASAT from the Büklüce wells area located in the western border of Manavgat district. However, the mentioned drinking water sources cannot be used efficiently due to the insufficient diameter of the transmission line. As an alternative to the existing drinking water sources, considering the future needs of drinking water and reserve water sources for emergency cases, within the scope of the project it is planned to pump the Büklüce drinking water sources to 5.000 m³ capacity storage tank with approximately 30 km of DN100~DN600 mm lines and to transfer it by gravity to the existing Manavgat Gündoğdu central water storage tank. So, it is planned to integrate Manavgat central water sources as well as additional sources into the central drinking water network lines and utilize them effectively.

Detailed information about the rehabilitation and construction works of the 3 sub-projects, mentioned above, current situation analysis and projections are included in the feasibility report. The construction works are planned within the framework of **Antalya Drinking Water Rehabilitation Project for Wildfire Areas**, and the cost of the project is estimated as **28.000.000 Euro**.

4. POTENTIAL ENVIRONMENTAL AND SOCIAL RISKS/IMPACTS OF PROPOSED SUB-PROJECTS

a) Air Quality

➤ Pre-Construction Phase / Construction Phase

During construction, dust emissions may occur as a result of material handling, movement of construction equipment and excavation works at sub-project sites. In addition to these dust emissions, exhaust emissions from heavy construction machinery may also occur. This may have adverse impacts on immovables, vegetation, animals and citizens. These impacts can be considered of low risk in terms of magnitude, duration, and spatial extent, as it is localized and occurs only during the construction phase.

➤ Operation Phase

It is not foreseen any significant dust and exhaust emissions, during the operation period, but air pollution from the exhaust systems of machinery and vehicles may occur during maintenance and repair activities.

b) Water Use

➤ Pre-Construction Phase / Construction Phase

During the construction phase, the daily drinking water needs of the workers will be provided in accordance with the Regulation on Water Intended for Human Consumption and the Public Health Law requirements. Also, watering is needed to prevent dust that will occur in the sub-project areas due to construction works. In this context, water requirement that will arise does not have any risk on water resources.

It is predicted that approximately 60 personnel will be employed during project construction phase. During the construction phase, daily drinking water demand of personnel will be met by carboys purchased from licensed companies selected according to the list of licensed companies announced by the Ministry of Health in compliance with the requirements of the Regulation on the Water Intended for Human Consumption and Public Health Law. The average daily drinking water consumption per person is as calculated below:

Daily drinking water demand number of people * average water consumption= 60 x 2lt = 120 L/day (0,12 m³/day)

The average daily water consumption per person is regarded as 229 L/day (TurkStat-2022), and the required amount of water for the construction phase of the Project is given as calculated below.

Daily water demand = number of people * average water consumption = 60 x 229 lt = 13.740 L/day (13,74 m³/day)

The water demand for suppression of dust generated in the project area due to the construction works will be met using Antalya Metropolitan Municipality's Water Trucks and the infrastructure of the municipality will be used for water supply. During the construction, drinking water and the water used in dust suppression will be supplied from the water supply network in the district. Within the scope of the project, the total construction area will be 324.000 m². 5 Liters of water will be used per square meter. Accordingly, 324.000 m² x 5 L/m = 1,620,000 L = 1,620 m³ water will be used to prevent dust emission. The mentioned water spraying will be carried out except when it rains.

➤ **Operation Phase**

During the operation phase of the sub-project, there will be no continuous water use daily of workers. In case of a failure in the valves located in the discharge lines of drinking water tanks during the operation phase, the uncontrolled discharge of water in the water tank may cause a low-risk flood at the nearest discharge point.

c) Wastewater

➤ **Pre-Construction Phase / Construction Phase**

The wastewater to be generated during the construction phase will be domestic wastewater resulting from personnel use. Minor short-term adverse impacts are envisaged to occur during construction phase due to surface runoff, sludge water filling excavation pits, etc.

The wastewater generated during the construction phase will be domestic wastewater caused by the use of personnel. The existing sewer system will be used for disposal of wastewater generating from personnel. If there is no connection to the sewerage system, it is envisaged to use an impermeable septic tank. Necessary agreements will be executed with the municipality for the wastewater collected in the septic tank to be collected by sewage trucks and delivered to a licensed wastewater treatment plant. (Manavgat Wastewater Treatment Plant)

Daily water usage per person is regarded as 229 L / (TurkStat data). The amount of water used per day is calculated as 13,740 L/day (13,74 m³/day). With the assumption that all this water to be used by personnel will turn into wastewater, the amount of generated wastewater is calculated below:

Wastewater Amount = Daily Water Consumption * transfer percentage=13.740 L/day * 1.0 = 13.740 L/day

Wastewater amount calculations were made by considering the worst scenario, the whole day consumption of a person was calculated.

➤ **Operation Phase**

It is not foreseen any domestic wastewater generation during the operation phase.

d) Waste Management

➤ Pre-Construction Phase / Construction Phase

It is foreseen that waste will be generated due to the construction activities in the Sub-Project areas and the use of workers in the construction site. These waste types can be listed as domestic waste, packaging waste (e.g. cardboard, plastic, etc.), hazardous waste (waste oil, contaminated packaging, chemicals, cotton waste, etc.) and excavation waste.

The waste expected to be generated during the construction phase are domestic waste, packaging waste, excavation waste, and hazardous waste.

Domestic Solid Waste

Domestic solid waste will be generated from the personnel who will work during the construction phase of the Project. The domestic solid waste generated will mostly consist of organic waste. The amount of domestic solid waste from the personnel is calculated according to the data established by TurkStat (2022) that an average of 1.37 kg of domestic solid waste will be generated per person per day in Türkiye:

Number of Workers = 60

Unit Solid Waste Amount = 1,37 kg/ person× day (TurkStat – 2022)

Generated Solid Waste Amount = 60 × 1,37 kg/ person × day = 82,2 kg day

The domestic solid waste generated will be stored in trash containers and collected by the Manavgat District Municipality with garbage trucks and disposed of in the solid waste regular storage area of the Antalya Metropolitan Municipality.

Excavation Soil, Construction and Demolition Waste

Consideration will be given to recycling of excavation soil and construction waste generated during the construction phase of the Project and especially to their reuse as infrastructure material. In accordance with the Regulation on the Control of Excavation Soil, Construction and Demolition Waste, construction waste and excavation soil will not be mixed with each other. If additionally, the excavation soil and construction waste produced cannot be reused or recycled on site, they will be transported to the storage areas, for which necessary permits are obtained, in transportation vehicles that have received transportation permit in accordance with the mentioned regulation. Some of the materials from the excavations during the construction carried out in the scope of Project will be used as filling material, while a large part will be disposed of in excavation areas with the necessary permits provided by the Municipality, by using authorized transportation vehicles.

Packaging Waste

The packaging waste generated during the construction phase will be disposed of in accordance with the procedures and principles of the Packaging Waste Control Regulation.

The packaging waste, such as paper and cardboard, metal, plastic and glass materials, and mixed packaging will be collected separately from other types of waste in specific waste boxes. Waste boxes will be collected by licensed packaging waste collectors periodically. The expected amount of packaging waste to be generated is calculated below:

$$\text{Amount of Packaging Waste (Domestic)} = 82,2 \text{ kg/day} \times 0,2 = 16,44 \text{ kg/day}$$

The packaging waste to be generated will be stored separately in the facility, will be collected and disposed of by the Licensed Packaging Waste Collection and Separation Facility with which Manavgat Municipality has an agreement.

Hazardous Waste

During the construction phase of the project, there may be a possibility that petroleum-based products such as lubricants, hydraulic fluids or fuels may be released into the environment during storage, transportation or equipment use. Additionally, contaminated / oily fabrics, cloths and filters, contaminated packaging materials, toner cartridges, paint residues, fluorescent tubes, absorbents, cleaning cloths and filters, hazardous insulating materials and pressurized tubes are other hazardous waste that are likely to be generated.

Hazardous wastes that may occur during the construction phase will be collected separately in specific containers at the construction site in accordance with the Waste Management Regulation, and in case of spillage or leakage, they will be stored in a special wired fence area established on the concrete floor and connected to a closed drainage channel for the isolated collection and accumulation of spilled or leaked hazardous liquids. A roof or top cover shall be provided for the hazardous waste storage area to protect waste containers from exposure to stormwater, thus preventing spills, leakages and environmental pollution, while also protecting the safety of workers. In addition, when designing the storage area, prevailing wind directions shall be taken into account to prevent the spread of particulate matter, dust or pollutants, thus reducing health risks to workers and the environment. The generated wastes shall be temporarily stored at the source in accordance with the criteria determined according to their types. The temporarily stored wastes shall be labelled with the words ‘hazardous or non-hazardous waste’ as well as the waste code, the amount of stored waste and the storage date. These wastes shall be delivered to licensed disposal/recycling facilities with separate waste codes. Hazardous wastes shall be transported by licensed vehicles within the scope of the “Regulation on the Transportation of Wastes by Road” published in the Official Gazette dated 20.03.2015 and numbered 29301.

Waste Batteries and Accumulators

Waste batteries will be collected separately in waste battery bins. The collected waste batteries will be delivered to the Portable Battery Manufacturers and Importers Association (TAP) (authorized waste battery collector) for disposal at the licensed facility.

This waste will be handled in accordance with the procedures and principles of the Regulation on the Control of Waste Batteries and Accumulators. An agreement will be made with

authorized companies to ensure the disposal of waste. If these wastes are not processed appropriately, they may cause adverse effects on human health and the environment.

➤ **Operation Phase**

During the operation phase, waste may be generated from damaged, defective or end-of-life equipment and materials that can be replaced or checked during maintenance and repair activities to be carried out periodically or in case of failure.

e) **Noise**

➤ **Pre-Construction Phase / Construction Phase**

The major sources of noise during construction include heavy equipment used during excavation and other construction activities, and the construction traffic related with the transportation of excavation waste and construction materials. Increased noise levels during the construction phase have the potential to have adverse impacts on background noise levels at the nearest sensitive receptors, which may lead to health risks. The actual level of impact from construction activities will also depend on the type of equipment used, the time interval and duration, and the perception of certain noise patterns (for example, continuous, periodic, irregular).

The equipment and machines used during the construction will be monitored and maintained at regular intervals. In case of complaints regarding noise, noise measurements will be made for impact area.

➤ **Operation Phase**

In case of any failure that may occur in the network lines, noise may occur due to the repair and maintenance works of this network line. Maintenance and repair equipment and machinery will not be used continuously, and the number of vehicles will be limited during the repair and maintenance works. Therefore, it is not envisaged that noise caused by these works will be significant during the operation phase of the project.

f) **Land Use and Soil Quality**

➤ **Pre-Construction Phase / Construction Phase**

Since existing zoning/cadastral roads will be used on the route where Transmission/Force Main will be constructed in all Sub-Projects, no change in soil quality is envisaged within the scope of the projects. During the construction phase, a low risk is foreseen in the transportation and storage of materials. In case of any affected areas due to construction works, the affected areas will be restored after work. Since there will be no fuel or similar hazardous chemical storage within the sub-project area, it is not anticipated to experience spill-like accidents.

➤ **Operation Phase**

No adverse impact on land use and soil quality is envisaged during the operation phase of the planned project.

g) Landscape

➤ **Pre-Construction Phase / Construction Phase**

Since ASAT4/W1 and ASAT4/W3 Projects will be in rural areas, no adverse impacts are envisaged. ASAT4/W2 Project will be constructed in the city center, which may create visual temporary disturbances for residents living or working nearby. Landscape and visual impacts will mostly be caused by dust resulting from construction equipment and excavation waste.

➤ **Operation Phase**

During the operation phase, visual impacts will mostly be related to the repair and maintenance works that have a short-term impact. Therefore, the landscape and visual impacts that will occur during the operation phase will be negligibly low.

h) Biodiversity and Protected Areas

➤ **Pre-Construction Phase / Construction Phase**

The distribution of natural flora and fauna in the project areas is very limited. Due to construction activities, the loss of flora species in the project area is inevitable. However, among the flora species detected in the project area, there are neither species listed on the IUCN Red List of Threatened Species nor endemic species.

➤ **Operation Phase**

No adverse impact on biodiversity is envisaged during the operation phase of the planned project.

i) Land Acquisition

➤ **Pre-Construction Phase / Construction Phase**

There will be no land acquisition for private properties within the scope of the sub-projects.

There will be no land acquisition of private properties within the scope of ASAT4-W1 Project, since there is an existing line on the route where the Force Main will be constructed, and zoning/cadastral roads will be used. (There is an existing line connecting from Kuyu district to Ulukapı water storage tank via zoning/cadastral roads. The new Force Main will also be constructed on the same route and there are no permits and/or ownership issues within the scope of the sub-project. Transfer of the Wells Region to ASAT was approved with the letter dated 23.06.2009 and numbered B.07.4.DEF.4.07.80.0.02/07140110700/1490, as presented in Annex-3.) In addition, the allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the “Final Permission Commitment Document” regarding the allocation of the land with File No. 29-3772 to the General Directorate of ASAT for 49 years is given in Annex-3.

Within the scope of ASAT4-W2 Project, Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed on the land belonging to the Ministry of Justice, on Lot 2 of 804 block, where existing drinking water tanks of ASAT General Directorate are located. The allocation process for the land on which the Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed

has been completed, and the letter dated 03.07.2024 and numbered E-66844966-400-9857868 regarding the pre-allocation of the land by the Ministry of Justice to the General Directorate of ASAT for a period of 2 (two) years is given in Annex-3. The process regarding the final allocation is carried out by General Directorate of ASAT and there is no obstacle to start the construction with the existing pre-allocation document of 2 years. Since the rehabilitation works of the sub-project will be carried out for the existing drinking water network lines passing through the zoning roads, there is no need for expropriation and resettlement.

Within the scope of ASAT4-W3 Project, Kartlar Water Storage Tank will be constructed on the land belonging to the General Directorate of Forestry on Lot 1 and block 554, next to the existing water storage tanks of ASAT General Directorate. Allocation letter information of the land where Kartlar Water Storage Tank will be constructed is presented in (Annex -3) by the letter dated 19.01.2024 and numbered E-94320752-756.02-159576.

➤ **Operation Phase**

No adverse impact is foreseen regarding land acquisition during the operation phase of the planned project.

j) Labour Conditions

➤ **Pre-Construction Phase / Construction Phase**

The contractor will be responsible for human resources for construction and operation phases. The contractor will comply with national labor, social security and occupational health and safety regulations as well as the principles and standards of the International Labor Organization convention. Based on the national principles in the International Labor Organization convention, contractor will take the following measures:

- Not to employ children under the age of 18,
- Elimination of forced labor and provision of a Human Resources Policy in line with the European Convention on Human Rights and the Turkish Constitution,
- Elimination of discrimination based on language, race, gender, political views, philosophical beliefs and religion in business relations,
- All workers will be given a written employment contract that defines the job, working hours, wages, rights and duties, etc.
- Ensuring access to an effectively functioning Project Grievance Redress Mechanism,

➤ **Operation Phase**

There is no need to employ any personnel during the operation phase of the project. Therefore, it is foreseen no risk.

k) Accommodation Conditions of the Contractors Workers

➤ **Pre-Construction Phase / Construction Phase**

Providing camp sites for workers is important in terms of job safety and worker satisfaction. In this context, the provision and management of camp sites will be provided by the contractor.

Assuming an average accommodation of 60 workers, the following risks are foreseen;

- Physical Safety Risks (Fire, explosion, fall and crash, etc.)
- Health Risks (Hygiene and cleaning, risk of infectious diseases, harmful substances, dust and noise)
- Security Risks (Theft, fights and disputes)
- Risk of Gender Based Violence (GBV), Sexual Exploitation/Abuse and Sexual Harassment (SEA/SH)
- Environmental Risks (Emergency response difficulties, Natural Disasters, proximity to settlements)

➤ **Operation Phase**

There is no need to employ any personnel during the operation phase of the project. Therefore, it is foreseen no risk.

l) Occupational Health and Safety

➤ **Pre-Construction Phase / Construction Phase**

If the necessary precautions are not taken, incidents and work accidents that may threaten the health and safety of workers may occur during construction works. Health and safety risks that may occur during construction are listed below:

- Working at height,
- Moving objects,
- Sliding and tripping hazards,
- Noise vibration and dust exposure,
- Material handling,
- Unintentional collapse,
- Asbestos,
- Electricity,
- Traffic accident risks due to heavy traffic,
- Work accidents, injuries,
- Hazards that workers are exposed due to unhygienic or unhealthy living conditions,
- Risk of infectious diseases (COVID19, HIV/AIDS, Malaria, Hepatitis virus, etc.).

➤ **Operation Phase**

There is no need for employment of any personnel during the operation phase of the project. Therefore, there is no risk.

m) Community Health and Safety

➤ **Pre-Construction Phase / Construction Phase**

Within the scope of the project, the following potential Community Health and Safety impacts arising from the construction phase have been identified:

- Speed and road damage of transportation and traffic; increased traffic and risk of road traffic accidents and injuries,
- Damage to existing underground public utility cables and pipes and disruption of services,
- Noise and vibration,
- Risk of Gender Based Violence (GBV), Sexual Exploitation/Abuse and Sexual Harassment (SEA/SH),
- Impact of the construction on the accessibility of the community to their houses, business, schools, etc.,
- Impact of the construction on potential vulnerable groups.

➤ **Operation Phase**

- Emergencies caused by contextual risks (floods, landslides, earthquakes, fires, etc.)
- Leakages in the pipelines, contaminated water mixing into drinking water network lines may have adverse impacts on community health.
- Deterioration in water quality due to blockage and pipe damage in the water network line
- Health risks of the personnel during chlorination activities in the drinking water storage tank
- Construction hazards that may occur during maintenance and repair work

n) Traffic and Transportation

➤ **Pre-Construction Phase / Construction Phase**

The transportation of construction materials, vehicle movement during construction activities, and excavation works in the access roads (schools, houses, business, etc.) may cause temporary traffic disruptions. This may cause inconvenience to the residents and pose a risk to pedestrians. In addition, road closures may have adverse impacts on commercial businesses in the area. Traffic works carried out on the roads may make transportation difficult for disadvantaged individuals and this may negatively affect their daily lives.

➤ **Operation Phase**

The impact of the project on traffic during the operation phase is considered to be a negative and direct impact. The scope of the impact will be local, and its duration will be short term.

o) Cultural Heritage

➤ **Pre-Construction Phase / Construction Phase**

No possible cultural assets or archaeological artifacts were identified around the sub-project excavation areas. However, an unforeseen historical or cultural structure or area may be encountered during the sub-project excavation works.

➤ **Operation Phase**

Since there is no activity other than limited maintenance/repair work, no significant impact on archaeological and cultural heritage is envisaged during the operation phase.

5. STAKEHOLDER ENGAGEMENT

The first stage of the stakeholder engagement is stakeholder identification. The purpose of stakeholder identification is to identify each stakeholder group and the nature of their interests and impacts on the project. After the stakeholder groups are identified, stakeholder engagement activities that will start during the project preparation period and continue during the construction and operation stages will be determined and planned.

Public Participation Meeting will be held by ALDAŞ Inc. before the project activities start to give information and consult with the groups affected by the project about the scope and necessity of the project. In this meeting, measures to minimize environmental and social impacts of the project, grievance mechanism, non-technical summary, and presentation of the project, EHS regulations and obligations which will be ongoing throughout the project period will be presented. The location, date and time of the meeting will be published in local and national newspapers and on the website of ASAT General Directorate at least 10 days before. In addition, before the Public Participation Meeting, posters about the project will be hung in mukhtars' office and the districts where construction works will be carried out, and citizens will be informed about the project and the announcements for the public participation meeting. In addition, posters of the meeting announcement will be published on the official website of ASAT General Directorate and ALDAŞ Inc. to inform the citizens. At the Public Participation Meeting, opinions, concerns, recommendations, and questions of the participants related to the project will be recorded. A survey will be conducted for the participants regarding the project, and the survey results, photos of the meeting and minutes of the meeting will be added to the Environmental Social Management Plan (ESMP).

- Implementation Construction Stage.
 - To inform stakeholders about the project scope and ongoing activities (information about road works in construction areas, etc.)
 - To request feedback from stakeholders about arising problems through the Grievance Mechanism and review the issues possible that are open to correction or improvement.
- Operation Stage.
 - The Grievance Mechanism will continue during the operation stage and provide feedback by developing remedial measures to solve the problems received from the relevant Municipalities, Mukhtars and other stakeholders under the responsibility of Antalya Metropolitan Municipality and General Directorate of ASAT.

5.1. Methodology

The current situation analysis of the project, which will be performed with this report, constitutes the initial stage of the stakeholder engagement period. The important thing at this stage is to include as many stakeholders as possible, who can contribute to the project, and to

make the initial planning for their management and monitoring effectively. It is aimed not only to ensure the participation of national and local stakeholders, but also an interaction between the stakeholders. For this purpose, it is aimed to carry out the stakeholder analysis period within the following scope during the project. Stakeholders are classified as direct and indirect stakeholders, as stated above, to provide management. The purpose of this is to prevent problems that may occur for decision mechanism and to facilitate prioritization between suggestions and ideas.

5.2. Stakeholder Identification and Analysis

The stakeholder analysis method was based on Environmental and Social Standard 10 “Stakeholder Participation and Information Sharing” in the World Bank's Environmental and Social Framework. Before the stakeholder analysis study, these questions were taken into consideration: who the potential beneficiaries are, which parties can be positively/negatively affected, which are the vulnerable parties in the project, who are the supporters of the project, and how will be the relations between the stakeholders. Detailed information on stakeholder identification is provided in the "Stakeholder Engagement Plan" document.

5.3. Disadvantaged/Vulnerable Individuals or Groups

Disadvantaged/Vulnerable groups/individuals (disabled people, elderly people, immigrants, foreign- nationals, etc.) will be identified through the specific ESMP and SEP of sub-project, and non-governmental organizations and local government representatives residing or working in the project areas will also be considered as stakeholders. Detailed information on vulnerable groups is provided in the Stakeholder Engagement Plan document.

6. GRIEVANCE MECHANISM

The purpose of this mechanism is to establish a system to consider, address, evaluate and resolve all kinds of grievances, concerns, expectations, opinions, recommendations and rights of the affected parties and other stakeholders such as construction workers regarding project activities and to minimize the grievances, and to resolve them effectively.

Within the scope of the project, a grievance mechanism will be established for worker grievances and grievances of the citizens. For worker grievances, "suggestion/grievance boxes will be placed at the project site. They will be accessible to all project worker sand will be placed in appropriate areas to allow workers to submit their complaints or requests anonymously. Thus, evaluation, approval, investigation of grievances, implementation of improvement activities and closure of the grievance will be carried out in a short time.

Although the risk arising from project activities is low, the grievance mechanism will also include the management of Sexual Exploitation/ Abuse and Sexual Harassment (SEA/SH) grievances. The GM available to project staff will also be used to manage SEA/SH issues and will have mechanisms for safe and ethical documentation and confidential reporting of SEA/SH issues. In case a worker has SEA/SH problems, immediate action will be taken within 48 hours of receipt of the grievance. For cases of sexual exploitation/ abuse and sexual harassment (SEA/SH) in the workplace or for possible cases of child abuse in project site, the grievance will be reported to the relevant legal authorities such as the Ministry of Family and Social Services and the Prosecutors Office by the responsible person of GM in ILBANK. Detailed information on Grievance Mechanism is provided in the Stakeholder Engagement Plan document.

7. ESMP MATRIX: RISKS AND IMPACTS, MITIGATION, MONITORING

7.1. Environmental and Social Management Plan (ESMP) Matrix

7.1.1. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank -Impact Mitigation Plan During Pre-Construction Stage

PRE-CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Documentation					
1	Missing Documentation	<ul style="list-style-type: none"> All Project Stakeholders 	<ul style="list-style-type: none"> The Contractor shall provide measurements of basic environmental parameters (water, soil, air quality, etc.) through pre-construction field work in line with the requirements of the ESMP, SEP and CMP prepared by the Employer and the Environmental and Social Framework Documents (ESMP, ESMF, SEP, LMP, Resettlement Plan (RP)) developed by ILBANK. Management Plans for sub-projects will be prepared within the scope of the Contractor Environmental and Social Management Plan (C-ESMP) regarding 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> ESMP SEP C-ESMP <ul style="list-style-type: none"> Labor Management Plan (LMP), Occupational Health and Safety Management Plan, Community Health and Safety Management Plan, Asbestos Management Plan, Change Find Procedure, Emergency Preparedness and Response Plan, (EPRP)

			management of Environmental and Social (ES) risks.		
Labor and Working Conditions					
2	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> In case of establishing worker camp sites, a worker camp plan will be prepared in line with the IFC&EBRD Accommodation Guide. Camp sites will be established in accordance with the plan. Non-smoking areas will be provided on the construction site. Clean, enough toilets and bathroom will be provided, toilets and bathrooms will be cleaned regularly. Worker camp sites will be arranged appropriately considering the health and comfort of workers. Accommodation units will be clean, hygienic and will be heated and cooled by air-conditioning equipment. Laundry will be provided in order to make the living conditions of the workers comfortable, The floor of the workers' dormitory will be covered with suitable material to ensure dormitory comfort, A personal wardrobe will be provided for each worker in the dormitories, Each worker will be provided with sufficient personal space. 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> Construction Site Camp Plan ESMP SEP Emergency Preparedness and Response Plan

		<ul style="list-style-type: none"> • Clear and understandable emergency plans will be prepared for emergencies such as fire, natural disasters, theft and all workers will be trained regularly. • Fire alarm systems and fire extinguishing equipment will be available in the construction site areas. All equipment will be regularly tested and maintained. • Workers will be provided code of conduct training regularly. 		
Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when any financial changes occur from the beginning of the employment, • To give special attention to the principles of non-discrimination and equal opportunities, and in this context, employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law, 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • Construction Site Camp Plan • LMP

			<ul style="list-style-type: none"> • Within the scope of the project, work permits of workers will be checked and measures will be taken against child labor, forced labor and child labor under the age of 18. • Workers will be given training on discrimination and code of conduct. The training will be explanatory on SEA/SH concepts. • To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring that they can easily access this grievance mechanism. 		
3	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • The Project Management Unit, which will be established by ASAT, ALDAŞ Supervision Consultant and the contractor's project team, will include personnel (at least 1 Environmental Expert, 1 Social Expert and 1 OHS Expert) who will work full-time and effectively control the implementation. • An Emergency Preparedness and Response Plan covering occupational and public health will be prepared and shared with all workers in order to control situations that may arise during construction activities within the scope of the project and require emergency response (fire, earthquake, etc.). 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • SEP • Contractor Management Plan • LMP • OHS Management Plan • ERPR • Daily Construction Site and Campsite OHS Reports.

			<ul style="list-style-type: none"> Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, To provide health and safety training and work information to the workers before starting of work, In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT", 		
4	Gender-based violence risk, Sexual exploitation and abuse / sexual harassment on workers, Social gender inequality	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, Training of workers on code of conduct, SEA/SH and WB requirements. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> LMP
Community Health and Safety					
5	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> To get all necessary legal permits/approvals/certifications during the construction stage 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP
6	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Before construction activities, all necessary official permissions regarding road closures and traffic directions will be 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Traffic Management Plan (TMP) ESMP

			obtained from the Provincial Traffic Directorate by the Contractor to ensure the safe use of the roads.	<ul style="list-style-type: none"> ALDAŞ Supervision Consultant Contractor 	
Stakeholder Engagement and Information Disclosure					
7	Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP and citizens will be informed about the projects and their opinions and suggestions will be received. Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the SEP. A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the SEP. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> SEP

7.1.2. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank - Impact Mitigation Plan During Construction Stage

CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> Implementation of the Camp Management Plan will be monitored. In accordance with the Emergency Preparedness and Response Plan, emergency response teams will be established. Emergency trainings will be provided regularly for all workers. Periodic cleaning of common areas such as office, dormitory, dining hall, bathroom and WC will be carried out and recorded daily/weekly/monthly, Protective enclosure of open electrical cables in the general camp area will be provided Smoking and use of tobacco products will be prohibited in the dormitories against fire risk and will be monitored regularly. The general camp area and dormitory conditions of the workers will be 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> Construction Site Camp Plan ESMP SEP Emergency Preparedness and Response Plan

			continuously checked and deficiencies will be completed immediately.		
	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when any financial changes occur from the beginning of the employment, To give special attention to the principles of non-discrimination and equal opportunities, and in this context, employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment, access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law, To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring that they can easily access this grievance mechanism. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Construction Site Camp Plan CMP LMP OHS Management Plan EPRP
2	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers with no gaps between them that will be easily noticeable, security signs 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP SEP CMP

			<p>will be placed, and access from outside the project area will be prevented,</p> <ul style="list-style-type: none"> • To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in case of emergency, and to distribute to all buildings in the region, • Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work • Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work, • To provide safe and sufficient standard sizes with handrails pedestrian crossings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary, • To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, • To provide health and safety training and work information to the workers before starting of work, 	<ul style="list-style-type: none"> • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • LMP • OHS Management Plan • EPRP • Daily Construction Site and Campsite OHS Reports
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			<ul style="list-style-type: none"> • To place safety signboards in the construction site such as “Danger”, "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations, • To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation, • To keep all equipment working and in good condition during construction stage, • In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT", • To keep first aid equipment always available at the construction site, considering that in case of an accident with injuries that may occur during the construction period, first aid may be required before the casualty is transferred to the nearest health institution, • In case of an incident where injury, illness or damage of goods has not occurred but has the potential to occur, Near-Miss Forms will be filled to improve work process, increase awareness and ensure the safety of workers, • In case of any significant accident in the working area, (e.g., fatal, or injured accidents, lost time problems, environmental spills, etc.), ASAT will 		
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			<p>report the work accident to law enforcement forces immediately and to Social Security Institution within 3 working days. The Contractor should inform ASAT and ASAT should inform ILBANK within 24 hours via telephone or e-mail. The World Bank will be informed by the ILBANK. If possible, the necessary information about the accident will be obtained from the worker who had the accident, an investigation will be carried out at the accident area, photographs will be taken about the accident and a root cause analysis will be performed. A suggested action plan and an accident investigation report will be prepared with this information. The World Bank will also be informed about the accident report and additional measures to be taken within 30 working days.</p>		
3	<p>Risk of gender- based violence (GBV),</p> <p>Sexual exploitation and abuse/sexual harassment (SEA/SH) on workers,</p> <p>Gender inequality</p>	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, To provide mandatory and regular training to workers on the necessary legal behaviours in the community and the legal consequences of non-compliance with the law, A commitment/policy to cooperate with law enforcement forces investigating perpetrators of gender-based violence, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP

			<ul style="list-style-type: none"> To report grievances/reports of worker abuse and gender-based violence or sexual harassment to the Supervisory Organization, To provide opportunities for workers to visit their families regularly, In case of a sexual assault, to report the situation to the competent authorities in accordance with the Turkish Penal Code, To follow a fair, effective and rapid procedure based on basic human rights, sensitive to the equality of women and men, and in accordance with the principle of the social state, in providing support and services to victims of violence, 		
Resource Efficiency and Pollution Prevention and Management					
4	Asbestos Pipes	<ul style="list-style-type: none"> Workers 	<p>In case of asbestos pipes are found in the construction site:</p> <ul style="list-style-type: none"> To leave asbestos pipes found during excavation untouched, In case the asbestos pipes need to be removed, to proceed in accordance with the Asbestos Management Plan which should be prepared by the Contractor and approved by the Consultant. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Asbestos Management Plan OHS Management Plan
5	Impacts on Water Resources	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Discharges resulting from hydraulic pressure tests will not be discharged directly into the environment. Even if it is drinking water, it will be ensured that it is delivered to the nearest stream and 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			stormwater drainage line in a controlled way.		
6	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To ensure that construction machinery and equipment are used only in construction sites and routes to minimize the amount of soil that may be exposed to contamination, Machinery and equipment will be checked regularly for oil and fuel leakages, In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, Fuel required for the construction equipment and vehicles to be used in the construction site during the construction period will be provided from the nearest station; If deemed necessary, fuels that can be stored in the construction site will be stored in areas where the necessary leakage measures are taken, To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, Wastes and wastewater (stormwater filled in trenches) that will be generated during the land preparation and construction period of the Project will be stored and disposed of in a controlled manner in accordance with the relevant regulations and the management applications described in this report. For this reason, it 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<p>will not be possible for waste and wastewater generated in the Project Area to interact with the soil environment and cause any impact.</p> <ul style="list-style-type: none"> • The Contractor will take the necessary measures to minimize the risk of erosion as described, but will not be limited to this, • Construction activities (especially excavation works) will be carried out in dry weather conditions as much as possible, • Scraping of topsoil will not be earlier than necessary to prevent soil (wind and water) erosion, • The circulation area of heavy machinery will be limited to minimum, • The construction works will be planned in such a way that new parts will not be opened as much as possible without closing the completed sections, • To prevent wind erosion of the soil, degraded areas and soil stocks will be kept moist and the stock height of the topsoil will not exceed maximum of 2m. • The topography will be restored for stabilization immediately after the completion of construction in each location, • The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, 		
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			drainage canals suitable for the topographic conditions of the site will be constructed.		
7	Impacts on Air	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Regular watering of the construction area to reduce the impacts of dust-generating activities such as excavation and backfilling, especially in spring and summer, To store daily backfill, bedding and covering material coming from the quarry in temporary storage areas, to moisturize and compact the material to prevent the from the wind, and covering up, if necessary, Loading and unloading of trucks should be carried out carefully to prevent the materials from being thrown and spread, To cover transport trucks with tarpaulins on public roads, when arriving and leaving the site, Speed limit application for trucks, To clean the tires of trucks to prevent sludge from being carried to the roads, To surround and close the work area, To select modern equipment and vehicles which will meet the relevant emission standards in construction works, To check exhaust systems and emission levels of the equipment and vehicles, The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP

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8	Risks or impacts due to wastewater generation	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Site office should be connected to the existing wastewater network (if there is not an existing network for connection, establishment of temporary isolated septic tank pits and the transfer of the wastewater to the nearest wastewater treatment plant by licensed companies), 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP
9	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Storage of hazardous wastes that may occur in the construction site and work site in accordance with the provisions of the "Waste Management Regulation" and forwarding them to the licensed company for disposal. Information regarding the work within this scope will be recorded and the records will be kept in the administrative office, Supervision Consultant should be informed by the Contractor by Monthly/Quarterly ESMP Monitoring about the complete list of vehicles, construction machinery and equipment to be used within the scope of the contract and their maintenance and repair status, In order to prevent soil pollution, necessary precautions will be taken for the leakages during the maintenance of the vehicles, construction machinery and equipment on site, Oil filters taken out from vehicles should be collected in a separate lidded container and should never be thrown into the trash or sent to the landfill, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

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			<ul style="list-style-type: none"> • Disposal/recycle of collected waste oils by sending them to the licensed facilities via licensed carriers, • To place the containers where waste is collected on impermeable floor in order to protect them from stormwater. • Waste batteries from the construction site and accumulators from vehicles should be disposed of in accordance with the consumer responsibilities specified in Article 13 of the "Waste Batteries and Accumulators Control Regulation", accordingly, used batteries (from municipal waste) should be collected separately and sent to specific collection areas, if any in the region (for example, to collection area of the Portable Battery Manufacturers Association), • All other hazardous materials will be disposed of in accordance with the Waste Management Regulation. 		
10	Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)	<ul style="list-style-type: none"> • Workers • Local Public • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, • To provide containers for different types of solid waste in construction site buildings and work areas and collect the waste in closed containers, • To transfer the wastes collected in closed containers at the project site to the waste disposal sites by the Municipality, 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR • TMP

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| | | <ul style="list-style-type: none">• Collection of wastes which are possible to be recycled in different waste containers by separating source,• Packaging waste should not be released directly or indirectly into the environment in a way that would harm the environment, and should be stored separately from domestic solid waste and delivered to licensed collection and separation companies for disposal,• Sufficient waste disposal facilities will be provided. All solid waste will be collected from generation points and transported safely to the collection area,• Workers will be trained on waste management applications,• Personal hygiene material/equipment waste (such as disposable masks, gloves) will be collected, temporarily stored, transported, and delivered to waste processing facilities in accordance with the 2020/12 Circular of the Ministry of Environment, Urbanization and Climate Change about Covid-19 Measures,• To take security precautions in the site for excavation to prevent visual disturbances and accidents, closing of the excavation area, placement of safety signs, routing of road,• Removal of the excavation waste from the site at regular intervals without waiting, as it will not be used in backfilling, | | |
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			<ul style="list-style-type: none"> • Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, • Excavation waste will be transported in accordance with the Traffic Management Plan to be prepared, • To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project, • The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 		
11	Greenhouse gas Emissions	<ul style="list-style-type: none"> • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To prevent and reduce waste generation, • To ensure disposal of waste by reducing the waiting time in temporary storage areas, • To ensure that the equipment used within the scope of the project is supplied with high energy efficiency. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR

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12	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To use existing construction equipment and materials in a way that will reduce greenhouse gas emissions, To apply speed restrictions for construction vehicles and equipment to optimize fuel efficiency, To carry out regular maintenance of construction vehicles and equipment, To monitor energy usage related to construction vehicles and equipment; and To give training workers on energy efficiency. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR
Community Health and Safety					
13	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers with no gaps between them that will be easily noticeable, security signs will be placed, and access from outside the project area will be prevented, Traffic Management Plan, which specifies how traffic will be managed during the project activities, and Traffic Route Direction Plan, which specifies traffic direction according to daily construction activities will be prepared by the Contractor and the Consultant reviews and approves. To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP ESMR

			<p>case of emergency, and to distribute to all buildings in the region,</p> <ul style="list-style-type: none">• Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work,• Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work,• To provide safe and sufficient pedestrian crossings with standard size and hand railings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary,• In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area,• To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation,		
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			<ul style="list-style-type: none"> To keep all equipment working and in good and safe condition during construction period, Workers in the construction site will be given information and training regarding their interactions with the citizens in the construction area. In this context, a grievance mechanism has been established to receive suggestions and grievances from local public in construction regions. 		
14	Noise, Vibration	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Machinery and equipment used during land preparation and construction works should not be operated at the same point/location but will be distributed homogeneously within the area, Selection of equipment with low noise level for the work machinery to be used within the scope of the project, Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, To record the working hours of each vehicle by the operator to monitor total working hours for periodic maintenance, All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, To plan appropriate working hours for the construction works, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<ul style="list-style-type: none"> To inform local public one week before if night work is deemed necessary and noise is high, To carry out all construction activities in accordance with the noise limits specified in the Regulation on Environmental Noise Control and WB EHS Guides, and the Contractor will take additional mitigating measures in case of a necessity revealed from monitoring, To establish a grievance mechanism to manage grievances regarding noise, 		
15	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, To inform public about the construction schedule before the start of the works, A Traffic Management Plan (TMP) will be developed to minimize possible impacts on residential areas located near water network lines and drinking water storage tanks (reservoirs). The traffic management plan will be prepared by the Contractor 30 days before the start of the works, and should include the following details: <ul style="list-style-type: none"> Construction schedule according to stages, Start and duration of the work, General view of existing conditions near construction sites, Determination of the affected areas, Mitigation measures, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR TMP

- Traffic route direction plans, including entrance and exit areas, material supply roads, turning points, parking areas, intersections with other traffic roads, etc.
- Roads for pedestrians and vehicles,
- Temporary passageway for citizens to get in and out and provide safe access,
- Traffic controls for the barriers, roads, signalling plans, warning signs, etc.
- Requirements for special vehicles, e.g. oversized ones,
- Accessible roads/roads for construction works (access, ramps, loading, unloading),
- Connection roads for supply vehicles and material storage,
- Expected interaction between pedestrians and vehicles,
- Roles and responsibilities of workers in the construction site regarding traffic management,
- Instructions on procedures for traffic control, including emergencies.

Appropriate signboards will be determined according to the Traffic Signs Regulation No. 18789 dated 19/6/1985. Before the construction works, the Contractor will install all necessary signboards, barriers, and control devices to ensure the safety of the roads. Traffic should be managed to minimize disruption of traffic safety and traffic flow. When it is necessary to close the roads, official permissions will be obtained from the Provincial Traffic Directorate

			<p>and the traffic route will be determined. The local public who will be affected by the blockages and traffic route direction will be informed promptly. Alternative routes will be determined, and transportation will be planned according to the traffic density; All the vehicles used in transportation activities will comply with the speed limits specified in the Highway Traffic Regulations.</p> <ul style="list-style-type: none"> • Safe driving will be ensured by Project personnel through training, • Buses will be used for transportation of workers, if possible, to avoid additional traffic pressure, • Storage of construction materials, equipment and machinery in traffic lanes will be prevented and, • If possible, traffic activities will be planned to avoid rush hour on local roads 		
16	Diseases	Workers	<ul style="list-style-type: none"> • The Contractor will develop a site-specific Occupational Health and Safety (OHS) Management Plan based on the site OHS risk assessment in accordance with Turkish legislation and WBG OHS Guides, • To give daily briefings to the workers about issues specific to Covid-19 and epidemics, including cough, hand hygiene and distance measures before starting work, • Workers will be required to self-monitor for possible symptoms (fever, cough) and 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP

			<p>report to their supervisor if they have symptoms or feel unwell,</p> <ul style="list-style-type: none"> • A worker from an affected area or who has been in contact with an infected person will be prevented from entering the site for 14 days, • Each personnel of the Contractor will be subjected to health examination by the workplace doctor before employment in accordance with the Regulation on the Duties, Authorities, Responsibilities and Training of Workplace Doctor and Other Health Personnel, and it will be repeated periodically, not exceeding 1 year at most. 		
17	Stability risks; emergencies, disruption to existing infrastructure and services, etc.	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • Emergency-related risks will start during the land preparation and construction stage. Any emergency will be managed through an Emergency Preparedness and Response Plan. Situations included in this Plan: <ul style="list-style-type: none"> - Incidents and accidents requiring first aid and evacuation, - Fire, - Earthquake, - Landslide - Adverse weather conditions (flood, snow, landslides, etc.) - Disruptions of road transport, - Sabotage / terrorist attack, - Toxication, - Environmental incidents, - All health issues, including public health, COVID-19, and epidemics. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • EPRP

Environmental and Social Management Plan

18	<p>Risk of gender- based violence (GBV), Sexual exploitation and abuse/ sexual harassment (SEA/SH) on communities, Gender inequality</p>	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The contractor will ensure that all direct and contract workers are provided with training on project requirements (individually or collectively) before employment. These trainings will also include raising awareness about sexual exploitation, abuse/sexual harassment (SEA/SH), gender-based violence (GBV) and the code of conduct that all project workers must comply with. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP
Land Acquisition, Restrictions on Land Use and Involuntary Resettlement					
19	<ul style="list-style-type: none"> Economic and/or physical displacement impacts on communities including disadvantaged or vulnerable individuals (including informal users, renters, squatters, etc.) groups, etc. Due to sub-project related land acquisition, restrictions on public and private lands; impacts, damage on adjacent lands, etc. other socio-economic impacts on communities including disadvantaged or vulnerable individuals 	<ul style="list-style-type: none"> Workers Local Public 	<p>There will be not land acquisition in the ASAT4-W1 Project. However, in case of any change in the construction site during the execution of the project, the following issues will be taken into consideration:</p> <ul style="list-style-type: none"> In case of any unexpected damage in the neighbouring lands, assets, crops, and structures during construction works, losses will be compensated by the contractor according to the principles specified in the Resettlement Framework, Support will be provided to citizens affected by the project to enable them to improve their living standards, Establishment of temporary safety bridges to avoid any inconvenience to the citizens until trench excavation works in front of 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP Resettlement Plan (RP)

			citizens' shops, houses and common areas are closed.		
Cultural Heritage					
20	Impacts on critical cultural heritage	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> In case of an unforeseen situation during the construction period, the necessary permissions and procedures will be fulfilled in accordance with the Chance Find Procedure by applying to Ministry of Culture and Tourism General Directorate of Cultural Heritage and Museums- Antalya Cultural Heritage Protection Regional Board Directorate. 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan
	Impacts on chance findings, intangible cultural heritage, etc.	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> However, in case of any cultural findings by chance during construction, Contractor will carry out the chance finds procedure during land preparation and construction works in accordance with Article 4 of the Law No. 2863 on the Protection of Cultural and Natural Assets. According to this content: <ul style="list-style-type: none"> If any movable or immovable cultural property is found by chance, construction work will be stopped immediately. 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan

			<ul style="list-style-type: none"> The relevant Preservation Board or Museum Directorate will be informed within three days at the latest and the security of the area will be ensured by the Contractor. Construction work will not continue until official notification is received. Project workers will be given training on the chance finds procedure. Also, in case of any cultural findings by chance, the Contractor will prepare Chance Find Procedure Document and submit to ALDAŞ Supervision Consultant. 		
Stakeholder Engagement and Information Disclosure					
21	Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP, and citizens will be informed about the projects and their opinions and suggestions will be received. Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the Stakeholder Engagement Plan (SEP). During the construction stage, Stakeholders will be informed about the projects through the information mechanisms explained in the SEP 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> SEP

			<ul style="list-style-type: none"> A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the Stakeholder Engagement Plan (SEP). 		
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7.1.3. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank- Impact Mitigation Plan During Operation Stage

OPERATION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide training to the workers and operation and maintenance personnel within the scope of the Regulation on the Procedures and Principles of Occupational Health and Safety Training, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, Before the pumping stations are put into operation, the necessary electrical tests will be carried out to check whether the 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP LMP OHS Management Plan EPRP

			<p>electrical connections and other related equipment are performed correctly,</p> <ul style="list-style-type: none"> • Necessary health and safety signs and traffic signs will be placed around the project site. Workers will be informed and warned about these signs, • After any accident/incident occurs, accident/incident forms will be filled and root cause analysis will be carried out, • To place safety signboards in the construction site such as "Danger", "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations, • To place always appropriate and sufficient firefighting equipment in the construction area in accordance with the relevant Regulation. 		
Resource Efficiency and Pollution Prevention and Management					
2	Impacts on Water Resources	<ul style="list-style-type: none"> • Local Public • Flora and Fauna in the region 	<ul style="list-style-type: none"> • In case of any failure of the valves located in the discharge lines of drinking water tanks during the operation phase, regular maintenance of the valves will be carried out by the ASAT Repair- Maintenance Team in order to prevent the uncontrolled discharge of water in the water tank and flood at the nearest discharge point. 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP
3	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> • Local Public 	<ul style="list-style-type: none"> • To provide training to the workers on the appropriate management of liquid waste, • Machinery and equipment will be checked regularly for oil and fuel leakages, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

Environmental and Social Management Plan

		<ul style="list-style-type: none"> • Flora and Fauna in the region 	<ul style="list-style-type: none"> • In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, • To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, • The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, drainage canals suitable for the topographic conditions of the site will be constructed. 		
4	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> • Workers • Local Public • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To develop and implement safe delivery, storage, handling and spill response procedures for chemicals, including chlorine, in accordance with safety data sheets, • To stop the spillage of spilled materials and cleaning them up promptly, • To provide training to workers on safe delivery, storage, handling and spill response procedures, • In order to prevent soil pollution, necessary precautions will be taken for the leakages during the maintenance of the vehicles, construction machinery and equipment on site, Oil filters taken out from vehicles should be collected in a separate lidded container and should never be thrown into the trash or sent to the landfill, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

			<ul style="list-style-type: none"> To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project. 		
5	<p>Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)</p>	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, Collection of wastes which are possible to be recycled in different waste containers by separating source, To provide training to workers on waste management applications, Since the material removed during pipe replacement etc. cannot be used in the backfilling, removal of it from the site at regular intervals without waiting, Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

6	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Existing construction equipment and materials will be used in a way that reduces greenhouse gas emissions, Speed restrictions will be applied to construction vehicles and equipment to optimize fuel efficiency, Regular maintenance of construction vehicles and equipment will be carried out, Energy usage related to construction vehicles and equipment will be monitored; And, Workers will be given training on energy efficiency. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
Community Health and Safety					
7	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> Continuous monitoring of the drinking water network for hydraulic and water quality purposes for water quality and water supply, To ensure adequate chlorine dosing in the drinking water tank and that the residual chlorine content is at the dosage specified by the network regulations, Continuous control of the chlorination process to protect water quality in the drinking water network, In order to protect the drinking water storage tank from external factors, the tank area will be surrounded by fences and barbwire, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP SEP

			<ul style="list-style-type: none"> • To prevent any kind of pollution and contamination that may reach the water storage tank through the operating personnel, • To clean stormwater collection manholes in the well areas, • The repair area will be surrounded by solid barriers with no gaps between them that will be easily noticeable, security signs will be placed, and access from outside the project area will be prevented, • Periodic monitoring of the operation of the entire water network will be carried out and in case of any failure in the system (blockage, pipe damage, etc.), necessary maintenance and repairs will be carried out on time, • Before maintenance/repair work begins, a schedule of interruptions in water supply will be determined and the local public will be informed about the interruption in advance, • In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area, • To place always appropriate and sufficient firefighting equipment in the construction 		
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			<p>areas in accordance with the relevant Regulation,</p> <ul style="list-style-type: none"> To provide technical training to the personnel who will deal with chlorination in the drinking water tank, to use protective masks, glasses and gloves, and to ensure that storage and dosing areas are ventilated. 		
8	Noise, Vibration	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> The number of vehicles will be limited during operation and maintenance. Workers will use ear protection. During maintenance activities, if necessary, noise measurements will be carried out near noise-sensitive areas, Selection of equipment with low noise level for the work machinery to be used within the scope of the project, To carry out regular maintenance in manoeuvre chambers, Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, To record each vehicle's operating hours by the operator in order to monitor total operating hours for periodic maintenance, All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, To inform local public one week before if night work is deemed necessary and noise is high, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

			<ul style="list-style-type: none"> To establish a grievance mechanism to manage grievances regarding noise. 		
9	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> To prepare traffic direction plans and necessary signs during maintenance and repair activities and place them in visible locations, To minimize potential traffic impacts on residential areas near water network and drinking water storage tanks (reservoirs). 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
10	Diseases	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> Analysis of water at the end points of drinking water network once a month to meet the Regulation on Water Intended for Human Consumption, Analysis of each drinking water network every three months in the absence of an analysis that meets the requirements of Water Intended for Human Consumption. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
11	Stability risks; emergencies, disruption to existing infrastructure and services, etc.	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> To develop and implement an Emergency Preparedness and Response Plan, To establish an emergency response team and provide training to this team, To provide an Emergency Information Form to each worker or operator, including the contact information of the contact person in case of an emergency, and the ambulance number, To keep Emergency Information Forms in the service areas. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

Stakeholder Engagement

12	Inappropriate stakeholder engagement and disclosure and grievance mechanisms	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> An effective Grievance Redress Mechanism will continue during the operation period, allowing potentially affected community members and workers to express concerns about the Project under the ESMP and have their grievances addressed adequately and in a timely manner. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> SEP
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7.1.4. ASAT4-W2 Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District- Impact Mitigation Plan During Pre-Construction Stage

PRE-CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Documentation					
1	Missing Documentation	<ul style="list-style-type: none"> All Project Stakeholders 	<ul style="list-style-type: none"> The Contractor shall provide measurements of basic environmental parameters (water, soil, air quality, etc.) through pre-construction field work in line with the requirements of the ESMP, SEP and Contractor Management Plan prepared by the Employer and the Environmental and Social Framework Documents (ESMP, ESMF, SEP, LMP, Resettlement Plan) 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> ESMP SEP C-ESMP <ul style="list-style-type: none"> LMP Occupational Health and Safety Management Plan Community Health and Safety Management Plan Asbestos Management Plan

			<p>(RP)) developed by ILBANK. Management Plans for sub-projects will be prepared within the scope of the Contractor Environmental and Social Management Plan (C-ESMP) regarding management of Environmental and Social (ES) risks.</p> <ul style="list-style-type: none"> Plan to be developed by the Contractor, which identifies significant risks that suppliers may expose workers in the supply chain to serious safety risks, and management of sector-specific OHS risks, 		<ul style="list-style-type: none"> ➤ Change Find Procedure ➤ EPRP
Labor and Working Conditions					
2	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> In case of establishing worker camp sites, a worker camp plan will be prepared in line with the IFC and EBRD Accommodation Guide. Camp sites will be established in accordance with the plan. Non-smoking areas will be provided on the construction site. Clean, enough toilets and bathroom will be provided, toilets and bathrooms will be cleaned regularly. Worker camp sites will be arranged appropriately considering the health and comfort of workers. Accommodation units will be clean, hygienic and will be 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> Construction Site Camp Plan ESMP SEP Emergency Preparedness and Response Plan

			<p>heated and cooled by air-conditioning equipment.</p> <ul style="list-style-type: none"> • Laundry will be provided in order to make the living conditions of the workers comfortable, • The floor of the workers' dormitory will be covered with suitable material to ensure dormitory comfort, • A personal wardrobe will be provided for each worker in the dormitories, • Each worker will be provided with sufficient personal space. • Clear and understandable emergency plans will be prepared for emergencies such as fire, natural disasters, theft and all workers will be trained regularly. • Fire alarm systems and fire extinguishing equipment will be available in the construction site areas. All equipment will be regularly tested and maintained. • Workers will be provided code of conduct training regularly. 		
Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • Construction Site Camp Plan • LMP 	

			<p>any financial changes occur from the beginning of the employment,</p> <ul style="list-style-type: none"> • To give special attention to the principles of non-discrimination and equal opportunities, and in this context, employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment, access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law, • Within the scope of the project, work permits of workers will be checked and measures will be taken against child labor, forced labor and child labor under the age of 18. • Workers will be given training on discrimination and code of conduct. The training will be explanatory on SEA/SH concepts. • To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring 		
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			<p>that they can easily access this grievance mechanism.</p> <ul style="list-style-type: none"> • In case of establishing worker camp sites, a worker camp plan will be prepared in line with the IFC and EBRD Accommodation Guide. Camp sites will be established in accordance with the plan. • Non-smoking areas will be provided on the construction site. • Clean, enough toilets and bathroom will be provided, toilets and bathrooms will be cleaned regularly. • Worker camp sites will be arranged appropriately considering the health and comfort of workers. Accommodation units will be clean, hygienic and will be heated and cooled by air-conditioning equipment. Each worker will be provided with sufficient personal space. 		
3	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • The Project Management Unit, which will be established by ASAT, ALDAŞ Supervision Consultant and the contractor's project team, will include personnel (at least 1 Environmental Expert, 1 Social Expert and 1 OHS Expert) who will work full-time and effectively control the implementation. • An Emergency Preparedness and Response Plan covering occupational and public health will be prepared and shared with all workers in order to control situations that 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • SEP • CMP • LMP • OHS Management Plan • EPRP • Daily Construction Site and Campsite OHS Reports.

			<p>may arise during construction activities within the scope of the project and require emergency response (fire, earthquake, etc.).</p> <ul style="list-style-type: none"> • Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, • To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, • To provide health and safety training and work information to the workers before starting of work, • In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT", 		
4	<p>Gender-based violence risk, Sexual exploitation and abuse / sexual harassment on workers, Social gender inequality</p>	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, • Training of workers on code of conduct, SEA/SH and WB requirements. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • LMP
Community Health and Safety					
5	<p>Community Health and Safety risks</p>	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • To get all necessary legal permits/approvals/certifications during the construction stage 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> • ESMP • SEP

				<ul style="list-style-type: none"> Contractor 	
6	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Before construction activities, all necessary official permissions regarding road closures and traffic directions will be obtained from the Provincial Traffic Directorate by the Contractor to ensure the safe use of the roads. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP TMP
Stakeholder Engagement and Information Disclosure					
7	Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP, and citizens will be informed about the projects and their opinions and suggestions will be received. Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the SEP. A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the SEP. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> SEP

7.1.5. ASAT4-W2 Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District – Impact Mitigation Plan During Construction Stage

CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> Implementation of the Camp Management Plan will be monitored. In accordance with the Emergency Preparedness and Response Plan, emergency response teams will be established. Emergency trainings will be provided regularly for all workers. Periodic cleaning of common areas such as office, dormitory, dining hall, bathroom and WC will be carried out and recorded daily/weekly/monthly, Protective enclosure of open electrical cables in the general camp area will be provided Smoking and use of tobacco products will be prohibited in the dormitories against fire risk and will be monitored regularly. 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> Construction Site Camp Plan ESMP SEP Emergency Preparedness and Response Plan

			<ul style="list-style-type: none"> The general camp area and dormitory conditions of the workers will be continuously checked and deficiencies will be completed immediately. 		
	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when any financial changes occur from the beginning of the employment, To give special attention to the principles of non-discrimination and equal opportunities, and in this context, employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment, access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law, To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Construction Site Camp Plan CMP LMP OHS Management Plan EPRP

			that they can easily access this grievance mechanism.		
2	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers with no gaps between them and will be easily noticeable, security signs will be placed, and access from outside the project area will be prevented, To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in case of emergency, and to distribute to all buildings in the region, Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work, To provide safe and sufficient standard sizes with handrails pedestrian crossings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP CMP LMP OHS Management Plan EPRP Daily Construction Site and Campsite OHS Reports

			<p>minimize occupational health and safety risks,</p> <ul style="list-style-type: none"> • To provide health and safety training and work information to the workers before starting of work, • To place safety signboards in the construction site such as “Danger”, "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations, • To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation, • To keep all equipment working and in good condition during construction stage, • In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT", • To keep first aid equipment always available at the construction site, considering that in case of an accident with injuries that may occur during the construction period, first aid may be required before the casualty is transferred to the nearest health institution, • In case of an incident where injury, illness or damage of goods has not occurred but has the potential to occur, Near-Miss Forms will be filled to improve work process, 		
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			<p>increase awareness and ensure the safety of workers,</p> <ul style="list-style-type: none"> In case of any significant accident in the working area, (e.g., fatal, or injured accidents, lost time problems, environmental spills, etc.), ASAT will report the work accident to law enforcement forces immediately and to Social Security Institution within 3 working days. The Contractor should inform ASAT and ASAT should inform ILBANK within 24 hours via telephone or e-mail. The World Bank will be informed by the ILBANK. If possible, the necessary information about the accident will be obtained from the worker who had the accident, an investigation will be carried out at the accident area, photographs will be taken about the accident and a root cause analysis will be performed. A suggested action plan and an accident investigation report will be prepared with this information. The World Bank will also be informed about the accident report and additional measures to be taken within 30 working days. 		
3	<p>Risk of gender- based violence (GBV),</p> <p>Sexual exploitation and abuse/sexual harassment (SEA/SH) on workers,</p>	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, To provide mandatory and regular training to workers on the necessary legal behaviours in the community and the legal 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP

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	Gender inequality		<p>consequences of non-compliance with the law,</p> <ul style="list-style-type: none"> • A commitment/policy to cooperate with law enforcement forces investigating perpetrators of gender-based violence, • To report grievances/reports of worker abuse and gender-based violence or sexual harassment to the Supervisory Organization, • To provide opportunities for workers to visit their families regularly, • In case of a sexual assault, to report the situation to the competent authorities in accordance with the Turkish Penal Code, • To follow a fair, effective and rapid procedure based on basic human rights, sensitive to the equality of women and men, and in accordance with the principle of the social state, in providing support and services to victims of violence, 		
Resource Efficiency and Pollution Prevention and Management					
4	Asbestos Pipes	<ul style="list-style-type: none"> • Workers 	<p>In case of asbestos pipes are found in the construction site:</p> <ul style="list-style-type: none"> • To leave asbestos pipes found during excavation untouched, • In case the asbestos pipes need to be removed, to proceed in accordance with the Asbestos Management Plan which should be prepared by the Contractor and approved by the Consultant. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • Asbestos Management Plan • OHS Management Plan

5	Impacts on Water Resources	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Discharges resulting from hydraulic pressure tests will not be discharged directly into the environment. Even if it is drinking water, it will be ensured that it is delivered to the nearest stream and stormwater drainage line in a controlled way. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR
6	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To ensure that construction machinery and equipment are used only in construction sites and routes to minimize the amount of soil that may be exposed to contamination, Machinery and equipment will be checked regularly for oil and fuel leakages, In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, Fuel required for the construction equipment and vehicles to be used in the construction site during the construction period will be provided from the nearest station; If deemed necessary, fuels that can be stored in the construction site will be stored in areas where the necessary leakage measures are taken, To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, Wastes and wastewater (stormwater filled in trenches) that will be generated during the land preparation and construction 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<p>period of the Project will be stored and disposed of in a controlled manner in accordance with the relevant regulations and the management applications described in this report. For this reason, it will not be possible for waste and wastewater generated in the Project Area to interact with the soil environment and cause any impact.</p> <ul style="list-style-type: none"> • The Contractor will take the necessary measures to minimize the risk of erosion as described, but will not be limited to this, • Construction activities (especially excavation works) will be carried out in dry weather conditions as much as possible, • Scraping of topsoil will not be earlier than necessary to prevent soil (wind and water) erosion, • The circulation area of heavy machinery will be limited to minimum, • The construction works will be planned in such a way that new parts will not be opened as much as possible without closing the completed sections, • To prevent wind erosion of the soil, degraded areas and soil stocks will be kept moist and the stock height of the topsoil will not exceed maximum of 2m, • The topography will be restored for stabilization immediately after the 		
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			<p>completion of construction in each location,</p> <ul style="list-style-type: none"> The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, drainage canals suitable for the topographic conditions of the site will be constructed. 		
7	Impacts on Air	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Regular watering of the construction area to reduce the impacts of dust-generating activities such as excavation and backfilling, especially in spring and summer, To store daily backfill, bedding and covering material coming from the quarry in temporary storage areas, to moisturize and compact the material to prevent the from the wind, and covering up, if necessary, Loading and unloading of trucks should be carried out carefully to prevent the materials from being thrown and spread, To cover transport trucks with tarpaulins on public roads, when arriving and leaving the site, Speed limit application for trucks, To clean the tires of trucks to prevent sludge from being carried to the roads, To surround and close the work area, To select modern equipment and vehicles which will meet the relevant emission standards in construction works, 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP

			<ul style="list-style-type: none"> To check exhaust systems and emission levels of the equipment and vehicles, The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 		
8	Risks or impacts due to wastewater generation	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Site office should be connected to the existing wastewater network (if there is not an existing network for connection, the formation of temporary isolated septic tank pits and the transfer of the wastewater to the nearest wastewater treatment plant by licensed vacuum). 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP
9	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Storage of hazardous wastes that may occur in the construction site and work site in accordance with the provisions of the "Waste Management Regulation" and forwarding them to the licensed company for disposal. Information regarding the work within this scope will be recorded and the records will be kept in the administrative office, Supervision Consultant should be informed by the Contractor by Monthly/Quarterly ESMP Monitoring about the complete list of vehicles, construction machinery and equipment to be used within the scope of the contract and their maintenance and repair status, In order to prevent soil pollution, necessary precautions will be taken for the leakages during the maintenance of the vehicles, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<p>construction machinery and equipment on site, Oil filters taken out from vehicles should be collected in a separate lidded container and should never be thrown into the trash or sent to the landfill,</p> <ul style="list-style-type: none"> • Disposal/recycle of collected waste oils by sending them to the licensed facilities via licensed carriers, • To place the containers where waste is collected on impermeable floor in order to protect them from stormwater. • Waste batteries from the construction site and accumulators from vehicles should be disposed of in accordance with the consumer responsibilities specified in Article 13 of the "Waste Batteries and Accumulators Control Regulation", accordingly, used batteries (from municipal waste) should be collected separately and sent to specific collection areas, if any in the region (for example, to collection area of the Portable Battery Manufacturers Association), • All other hazardous materials will be disposed of in accordance with the Waste Management Regulation. 		
10	<p>Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)</p>	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, • To provide containers for different types of solid waste in construction site buildings 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR • TMP

		<ul style="list-style-type: none"> • Flora and Fauna in the region • Natural Resources 	<p>and work areas and collect the waste in closed containers,</p> <ul style="list-style-type: none"> • To transfer the wastes collected in closed containers at the project site to the waste disposal sites by the Municipality, • Collection of wastes which are possible to be recycled in different waste containers by separating source, • Packaging waste should not be released directly or indirectly into the environment in a way that would harm the environment, and should be stored separately from domestic solid waste and delivered to licensed collection and separation companies for disposal, • Sufficient waste disposal facilities will be provided. All solid waste will be collected from generation points and transported safely to the collection area, • Workers will be trained on waste management applications, • Personal hygiene material/equipment waste (such as disposable masks, gloves) will be collected, temporarily stored, transported, and delivered to waste processing facilities in accordance with the 2020/12 Circular of the Ministry of Environment, Urbanization and Climate Change about Covid-19 Measures, • To take security precautions in the site for excavation to prevent visual disturbances and accidents, closing of the excavation 		
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			<p>area, placement of safety signs, routing of road,</p> <ul style="list-style-type: none"> • Removal of the excavation waste from the site at regular intervals without waiting, as it will not be used in backfilling, • Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, • Excavation waste will be transported in accordance with the Traffic Management Plan to be prepared, • To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project, • The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 		
11	Green-house gas Emissions	<ul style="list-style-type: none"> • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To prevent and reduce waste generation, • To ensure disposal of waste by reducing the waiting time in temporary storage areas, • To ensure that the equipment used within the scope of the project is supplied with high energy efficiency. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR

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12	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To use existing construction equipment and materials in a way that will reduce greenhouse gas emissions, To apply speed restrictions for construction vehicles and equipment to optimize fuel efficiency, To carry out regular maintenance of construction vehicles and equipment, To monitor energy usage related to construction vehicles and equipment; and To give training workers on energy efficiency. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR
Community Health and Safety					
13	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers with no gaps between them that will be easily noticeable, security signs will be placed, and access from outside the project area will be prevented, Traffic Management Plan, which specifies how traffic will be managed during the project activities, and Traffic Route Direction Plan, which specifies traffic direction according to daily construction activities will be prepared by the Contractor and the Consultant reviews and approves To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP ESMR

			<p>case of emergency, and to distribute to all buildings in the region,</p> <ul style="list-style-type: none">• Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work,• Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work,• To provide safe and sufficient pedestrian crossings with standard size and hand railings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary,• In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area,• To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation,		
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			<ul style="list-style-type: none"> To keep all equipment working and in good and safe condition during construction period, Workers in the construction site will be given information and training regarding their interactions with the citizens in the construction area. In this context, a grievance mechanism has been established to receive suggestions and grievances from local public in construction regions. 		
14	Noise, Vibration	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Machinery and equipment used during land preparation and construction works should not be operated at the same point/location but will be distributed homogeneously within the area, Selection of equipment with low noise level for the work machinery to be used within the scope of the project, Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, To record the working hours of each vehicle by the operator to monitor total working hours for periodic maintenance, All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, To plan appropriate working hours for the construction works, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<ul style="list-style-type: none"> To inform local public one week before if night work is deemed necessary and noise is high, To carry out all construction activities in accordance with the noise limits specified in the Regulation on Environmental Noise Control and WB EHS Guides, and the Contractor will take additional mitigating measures in case of a necessity revealed from monitoring, To establish a grievance mechanism to manage grievances regarding noise, 		
15	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, To inform public about the construction schedule before the start of the works, A Traffic Management Plan (TMP) will be developed to minimize possible impacts on residential areas located near water network lines and drinking water storage tanks (reservoirs). The traffic management plan (TMP) will be prepared by the Contractor 30 days before the start of the works, and should include the following details: <ul style="list-style-type: none"> Construction schedule according to stages, Start and duration of the work, General view of existing conditions near construction sites, Determination of the affected areas, Mitigation measures, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR TMP

- Traffic route direction plans, including entrance and exit areas, material supply roads, turning points, parking areas, intersections with other traffic roads, etc.
- Roads for pedestrians and vehicles,
- Temporary passageway for citizens to get in and out and provide safe access,
- Traffic controls for the barriers, roads, signalling plans, warning signs, etc.
- Requirements for special vehicles, e.g. oversized ones,
- Accessible roads/roads for construction works (access, ramps, loading, unloading),
- Connection roads for supply vehicles and material storage,
- Expected interaction between pedestrians and vehicles,
- Roles and responsibilities of workers in the construction site regarding traffic management,
- Instructions on procedures for traffic control, including emergencies.

Appropriate signboards will be determined according to the Traffic Signs Regulation No. 18789 dated 19/6/1985. Before the construction works, the Contractor will install all necessary signboards, barriers, and control devices to ensure the safety of the roads. Traffic should be managed to minimize disruption of traffic safety and traffic flow. When it is necessary to close the roads, official permissions will be obtained from the Provincial Traffic Directorate

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			<p>and the traffic route will be determined. The local public who will be affected by the blockages and traffic route direction will be informed promptly. Alternative routes will be determined, and transportation will be planned according to the traffic density; All the vehicles used in transportation activities will comply with the speed limits specified in the Highway Traffic Regulations.</p> <ul style="list-style-type: none"> • Safe driving will be ensured by Project personnel through training, • Buses will be used for transportation of workers, if possible, to avoid additional traffic pressure, • Storage of construction materials, equipment and machinery in traffic lanes will be prevented and, • If possible, traffic activities will be planned to avoid rush hour on local roads 		
16	Diseases	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • The Contractor will develop a site-specific Occupational Health and Safety (OHS) Management Plan based on the site OHS risk assessment in accordance with Turkish legislation and WBG OHS Guides, • To give daily briefings to the workers about issues specific to Covid-19 and epidemics, including cough, hand hygiene and distance measures before starting work, • Workers will be required to self-monitor for possible symptoms (fever, cough) and 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP

			<p>report to their supervisor if they have symptoms or feel unwell,</p> <ul style="list-style-type: none"> • A worker from an affected area or who has been in contact with an infected person will be prevented from entering the site for 14 days, • Each personnel of the Contractor will be subjected to health examination by the workplace doctor before employment in accordance with the Regulation on the Duties, Authorities, Responsibilities and Training of Workplace Doctor and Other Health Personnel, and it will be repeated periodically, not exceeding 1 year at most. 		
17	Stability risks; emergencies, disruption to existing infrastructure and services, etc.	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • Emergency-related risks will start during the land preparation and construction stage. Any emergency will be managed through an Emergency Preparedness and Response Plan. Situations included in this Plan: <ul style="list-style-type: none"> - Incidents and accidents requiring first aid and evacuation, - Fire, - Earthquake, - Landslide - Adverse weather conditions (flood, snow, landslides, etc.) - Disruptions of road transport, - Sabotage / terrorist attack, - Toxication, - Environmental incidents, - All health issues, including public health, COVID-19, and epidemics. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • EPRP

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18	<p>Risk of gender- based violence (GBV), Sexual exploitation and abuse/ sexual harassment (SEA/SH) on communities, Gender inequality</p>	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The contractor will ensure that all direct and contract workers are provided with training on project requirements (individually or collectively) before employment. These trainings will also include raising awareness about sexual exploitation, abuse/sexual harassment (SEA/SH), gender-based violence (GBV) and the code of conduct that all project workers must comply with. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP
Land Acquisition, Restrictions on Land Use and Involuntary Resettlement					
19	<ul style="list-style-type: none"> Economic and/or physical displacement impacts on communities including disadvantaged or vulnerable individuals (including informal users, renters, squatters, etc.) groups, etc. Due to sub-project related land acquisition, restrictions on public and private lands; impacts, damage on adjacent lands, etc. other socio-economic impacts on communities including disadvantaged or vulnerable individuals 	<ul style="list-style-type: none"> Workers Local Public 	<p>There will be not land acquisition in the ASAT4-W2 Project. However, in case of any change in the construction site during the execution of the project, the following issues will be taken into consideration:</p> <ul style="list-style-type: none"> In case of any unexpected damage in the neighbouring lands, assets, crops, and structures during construction works, losses will be compensated by the contractor according to the principles specified in the Resettlement Framework, Support will be provided to citizens affected by the project to enable them to improve their living standards, Establishment of temporary safety bridges to avoid any inconvenience to the citizens until trench excavation works in front of 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP Resettlement Plan (RP)

			citizens' shops, houses and common areas are closed.		
Cultural Heritage					
20	Impacts on critical cultural heritage	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> In case of an unforeseen situation during the construction period, the necessary permissions and procedures will be fulfilled in accordance with the Chance Find Procedure by applying to Ministry of Culture and Tourism General Directorate of Cultural Heritage and Museums- Antalya Cultural Heritage Protection Regional Board Directorate. 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan
	Impacts on chance findings, intangible cultural heritage, etc.	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> However, in case of any cultural findings by chance during construction, Contractor will carry out the chance finds procedure during land preparation and construction works in accordance with Article 4 of the Law No. 2863 on the Protection of Cultural and Natural Assets. According to this content: <ul style="list-style-type: none"> If any movable or immovable cultural property is found by chance, construction work will be stopped immediately. 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan

			<ul style="list-style-type: none"> The relevant Preservation Board or Museum Directorate will be informed within three days at the latest and the security of the area will be ensured by the Contractor. Construction work will not continue until official notification is received. Project workers will be given training on the chance finds procedure. Also, in case of any cultural findings by chance, the Contractor will prepare Chance Find Procedure Document and submit to ALDAŞ Supervision Consultant. 		
Stakeholder Engagement and Information Disclosure					
21	<p>Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc</p>	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP, and citizens will be informed about the projects and their opinions and suggestions will be received. Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the Stakeholder Engagement Plan (SEP). During the construction stage, Stakeholders will be informed about the projects through the information mechanisms explained in the SEP 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> SEP

			<ul style="list-style-type: none"> A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the SEP. 		
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7.1.6. ASAT4-W2 Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District- Impact Mitigation Plan During Operation Stage

OPERATION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide training to the workers and operation and maintenance personnel within the scope of the Regulation on the Procedures and Principles of Occupational Health and Safety Training, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, Before the pumping stations are put into operation, the necessary electrical tests will be carried out to check whether the 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP LMP OHS Management Plan EPRP

			<p>electrical connections and other related equipment are performed correctly,</p> <ul style="list-style-type: none"> • Necessary health and safety signs and traffic signs will be placed around the project site. Workers will be informed and warned about these signs, • After any accident/incident occurs, accident/incident forms will be filled and root cause analysis will be carried out, • To place safety signboards in the construction site such as "Danger", "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations, • To place always appropriate and sufficient firefighting equipment in the construction area in accordance with the relevant Regulation. 		
Resource Efficiency and Pollution Prevention and Management					
2	Impacts on Water Resources	<ul style="list-style-type: none"> • Local Public • Flora and Fauna in the region 	<ul style="list-style-type: none"> • In case of any failure of the valves located in the discharge lines of drinking water tanks during the operation phase, regular maintenance of the valves will be carried out by the ASAT Repair- Maintenance Team in order to prevent the uncontrolled discharge of water in the water tank and flood at the nearest discharge point. 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP
3	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> • Local Public 	<ul style="list-style-type: none"> • To provide training to the workers on the appropriate management of liquid waste, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

Environmental and Social Management Plan

		<ul style="list-style-type: none"> • Flora and Fauna in the region 	<ul style="list-style-type: none"> • Machinery and equipment will be checked regularly for oil and fuel leakages, • In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, • To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, • The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, drainage canals suitable for the topographic conditions of the site will be constructed. 		
4	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> • Workers • Local Public • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To develop and implement safe delivery, storage, handling and spill response procedures for chemicals, including chlorine, in accordance with safety data sheets, • To stop the spillage of spilled materials and cleaning them up promptly, • To provide training to workers on safe delivery, storage, handling and spill response procedures, • In order to prevent soil pollution, necessary precautions will be taken for the leakages during the maintenance of the vehicles, construction machinery and equipment on site, Oil filters taken out from vehicles should be collected in a separate lidded 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

			<p>container and should never be thrown into the trash or sent to the landfill,</p> <ul style="list-style-type: none"> To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project. 		
5	<p>Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)</p>	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, Collection of wastes which are possible to be recycled in different waste containers by separating source, To provide training to workers on waste management applications, Since the material removed during pipe replacement etc. cannot be used in the backfilling, removal of it from the site at regular intervals without waiting, Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

6	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Existing construction equipment and materials will be used in a way that reduces greenhouse gas emissions, Speed restrictions will be applied to construction vehicles and equipment to optimize fuel efficiency, Regular maintenance of construction vehicles and equipment will be carried out, Energy usage related to construction vehicles and equipment will be monitored; And, Workers will be given training on energy efficiency. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
Community Health and Safety					
7	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> Continuous monitoring of the drinking water network for hydraulic and water quality purposes for water quality and water supply, To ensure adequate chlorine dosing in the drinking water tank and that the residual chlorine content is at the dosage specified by the network regulations, Continuous control of the chlorination process to protect water quality in the drinking water network, In order to protect the drinking water storage tank from external factors, the tank area will be surrounded by fences and barbwire, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP SEP

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| | | <ul style="list-style-type: none">• To prevent any kind of pollution and contamination that may reach the water storage tank through the operating personnel,• To clean stormwater collection manholes in the well areas,• The repair area will be surrounded by solid barriers in a way that will be easily noticeable and will not leave any gaps between them, security signs will be placed, and access from outside the project area will be prevented,• Periodic monitoring of the operation of the entire water network will be carried out and in case of any failure in the system (blockage, pipe damage, etc.), necessary maintenance and repairs will be carried out on time,• Before maintenance/repair work begins, a schedule of interruptions in water supply will be determined and the local public will be informed about the interruption in advance,• In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area, | | |
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			<ul style="list-style-type: none"> To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation, To provide technical training to the personnel who will deal with chlorination in the drinking water tank, to use protective masks, glasses and gloves, and to ensure that storage and dosing areas are ventilated. 		
8	Noise Vibration	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> The number of vehicles will be limited during operation and maintenance. Workers will use ear protection. During maintenance activities, if necessary, noise measurements will be carried out near noise-sensitive areas, Selection of equipment with low noise level for the work machinery to be used within the scope of the project, To carry out regular maintenance in maneuverer chambers, Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, To record each vehicle's operating hours by the operator in order to monitor total operating hours for periodic maintenance, All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

			<ul style="list-style-type: none"> To inform local public one week before if night work is deemed necessary and noise is high, To establish a grievance mechanism to manage grievances regarding noise. 		
9	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> To prepare traffic direction plans and necessary signs during maintenance and repair activities and place them in visible locations, To minimize potential traffic impacts on residential areas near water network and drinking water storage tanks (reservoirs). 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
10	Diseases	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> Analysis of water at the end points of drinking water network once a month to meet the Regulation on Water Intended for Human Consumption, Analysis of each drinking water network every three months in the absence of an analysis that meets the requirements of Water Intended for Human Consumption. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
11	Stability risks; emergencies, disruption to existing infrastructure and services, etc.	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> To develop and implement an Emergency Preparedness and Response Plan, To establish an emergency response team and provide training to this team, To provide an Emergency Information Form to each worker or operator, including the contact information of the contact person in case of an emergency, and the ambulance number, To keep Emergency Information Forms in the service areas. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

Stakeholder Engagement					
12	Inappropriate stakeholder engagement and disclosure and grievance mechanisms	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> An effective Grievance Redress Mechanism will continue during the operation period, allowing potentially affected community members and workers to express concerns about the Project under the ESMP and have their grievances addressed adequately and in a timely manner. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> SEP

7.1.7. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts) Impact Mitigation Plan During Pre-Construction Stage

PRE-CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Documentation					
1	Missing Documentation	<ul style="list-style-type: none"> All Project Stakeholder 	<ul style="list-style-type: none"> The Contractor shall provide measurements of basic environmental parameters (water, soil, air quality, etc.) through pre-construction field work in line with the requirements of the ESMP, SEP and Contractor Management Plan prepared by the Employer and the Environmental and Social Framework Documents (ESMP, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> ESMP SEP C-ESMP <ul style="list-style-type: none"> LMP Occupational Health and Safety Management Plan Community Health and Safety Management Plan Asbestos Management Plan

			ESMF, SEP, LMP, Resettlement Plan (RP)) developed by ILBANK. Management Plans for sub-projects will be prepared within the scope of the Contractor Environmental and Social Management Plan (C-ESMP) regarding management of Environmental and Social (ES) risks.		<ul style="list-style-type: none"> ➤ Change Find Procedure, ➤ EPRP
Labor and Working Conditions					
2	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • In case of establishing worker camp sites, a worker camp plan will be prepared in line with the IFC and EBRD Accommodation Guide. Camp sites will be established in accordance with the plan. • Non-smoking areas will be provided on the construction site. • Clean, enough toilets and bathroom will be provided, toilets and bathrooms will be cleaned regularly. • Worker camp sites will be arranged appropriately considering the health and comfort of workers. Accommodation units will be clean, hygienic and will be heated and cooled by air-conditioning equipment. • Laundry will be provided in order to make the living conditions of the workers comfortable, 	<ul style="list-style-type: none"> • Contractor 	<ul style="list-style-type: none"> • Construction Site Camp Plan • ESMP • SEP • Emergency Preparedness and Response Plan

Environmental and Social Management Plan

			<ul style="list-style-type: none"> • The floor of the workers' dormitory will be covered with suitable material to ensure dormitory comfort, • A personal wardrobe will be provided for each worker in the dormitories, • Each worker will be provided with sufficient personal space. • Clear and understandable emergency plans will be prepared for emergencies such as fire, natural disasters, theft and all workers will be trained regularly. • Fire alarm systems and fire extinguishing equipment will be available in the construction site areas. All equipment will be regularly tested and maintained. • Workers will be provided code of conduct training regularly. 		
	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when any financial changes occur from the beginning of the employment, • To give special attention to the principles of non-discrimination and equal opportunities, and in this context, 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • Construction Site Camp Plan • LMP

			<p>employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law,</p> <ul style="list-style-type: none"> • Within the scope of the project, work permits of workers will be checked and measures will be taken against child labor, forced labor and child labor under the age of 18. • Workers will be given training on discrimination and code of conduct. The training will be explanatory on SEA/SH concepts. • To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring that they can easily access this grievance mechanism. • In case of establishing worker camp sites, a worker camp plan will be prepared in line with the IFC and EBRD Accommodation Guide. Camp sites will be established in accordance with the plan. 		
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			<ul style="list-style-type: none"> • Non-smoking areas will be provided on the construction site. • Clean, enough toilets and bathroom will be provided, toilets and bathrooms will be cleaned regularly. • Worker camp sites will be arranged appropriately considering the health and comfort of workers. Accommodation units will be clean, hygienic and will be heated and cooled by air-conditioning equipment. Each worker will be provided with sufficient personal space. 		
3	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • The Project Management Unit, which will be established by ASAT, ALDAŞ Supervision Consultant and the contractor's project team, will include personnel (at least 1 Environmental Expert, 1 Social Expert and 1 OHS Expert) who will work full-time and effectively control the implementation. • An Emergency Preparedness and Response Plan covering occupational and public health will be prepared and shared with all workers in order to control situations that may arise during construction activities within the scope of the project and require emergency response (fire, earthquake, etc.). • Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • SEP • Contractor Management Plan • LMP • OHS Management Plan • EPRP • Daily Construction Site and Campsite OHS Reports.

			<ul style="list-style-type: none"> To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, To provide health and safety training and work information to the workers before starting of work, In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT", 		
4	Gender-based violence risk, Sexual exploitation and abuse / sexual harassment on workers, Social gender inequality	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, Training of workers on code of conduct, SEA/SH and WB requirements. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> LMP
Community Health and Safety					
5	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> To get all necessary legal permits/approvals/certifications during the construction stage 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP
6	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Before construction activities, all necessary official permissions regarding road closures and traffic directions will be obtained from the Provincial Traffic Directorate by the Contractor to ensure the safe use of the roads. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP TMP

Stakeholder Engagement and Information Disclosure					
7	Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP, and citizens will be informed about the projects and their opinions and suggestions will be received. Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the Stakeholder Engagement Plan (SEP). A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the Stakeholder Engagement Plan (SEP). 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> SEP

7.1.8. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts) Impact Mitigation Plan During Construction Stage

CONSTRUCTION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Accommodation Conditions of the Contractors Workers	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> Implementation of the Camp Management Plan will be monitored. In accordance with the Emergency Preparedness and Response Plan, emergency response teams will be established. Emergency trainings will be provided regularly for all workers. Periodic cleaning of common areas such as office, dormitory, dining hall, bathroom and WC will be carried out and recorded daily/weekly/monthly, Protective enclosure of open electrical cables in the general camp area will be provided Smoking and use of tobacco products will be prohibited in the dormitories against fire risk and will be monitored regularly. 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> Construction Site Camp Plan ESMP SEP Emergency Preparedness and Response Plan

			<ul style="list-style-type: none"> The general camp area and dormitory conditions of the workers will be continuously checked and deficiencies will be completed immediately. 		
	<p>Labor, working conditions, risks or impacts related to worker rights.</p>	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide workers with written contracts containing clear and understandable information regarding their rights under national labour law, including their rights regarding working hours, wages, overtime work, compensation, and benefits when any financial changes occur from the beginning of the employment, To give special attention to the principles of non-discrimination and equal opportunities, and in this context, employment decisions (such as hiring, compensation, wages, and benefits, working conditions and conditions of employment, access to training, assignment, promotion, dismissal or retirement and disciplinary practices) will be given regardless of irrelevant personal characteristics. Wages, working hours and other benefits will be in accordance with the Turkish Labor Law, To establish a grievance mechanism for workers to enable them to express their current affairs about the workplace, and to inform workers about this grievance mechanism during employment ensuring 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Construction Site Camp Plan CMP LMP OHS Management Plan EPRP

			that they can easily access this grievance mechanism.		
2	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers in a way that will be easily noticeable and will not leave any gaps between them, security signs will be placed, and access from outside the project area will be prevented, To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in case of emergency, and to distribute to all buildings in the region, Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work, To provide safe and sufficient standard sizes with handrails pedestrian crossings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP CMP LMP OHS Management Plan EPRP Daily Construction Site and Campsite OHS Reports

			<p>minimize occupational health and safety risks,</p> <ul style="list-style-type: none">• To provide health and safety training and work information to the workers before starting of work,• To place safety signboards in the construction site such as “Danger”, "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations,• To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation,• To keep all equipment working and in good condition during construction stage,• In accordance with the First Aid Regulation, The Contractor must have 1 first aid certified personnel for every 10 personnel working in the "PROJECT",• To keep first aid equipment always available at the construction site, considering that in case of an accident with injuries that may occur during the construction period, first aid may be required before the casualty is transferred to the nearest health institution,• In case of an incident where injury, illness or damage of goods has not occurred but has the potential to occur, Near-Miss Forms will be filled to improve work process,		
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			<p>increase awareness and ensure the safety of workers,</p> <ul style="list-style-type: none"> In case of any significant accident in the working area, (e.g., fatal, or injured accidents, lost time problems, environmental spills, etc.), ASAT will report the work accident to law enforcement forces immediately and to Social Security Institution within 3 working days. The Contractor should inform ASAT and ASAT should inform ILBANK within 24 hours via telephone or e-mail. The World Bank will be informed by the ILBANK. If possible, the necessary information about the accident will be obtained from the worker who had the accident, an investigation will be carried out at the accident area, photographs will be taken about the accident and a root cause analysis will be performed. A suggested action plan and an accident investigation report will be prepared with this information. The World Bank will also be informed about the accident report and additional measures to be taken within 30 working days. 		
3	<p>Risk of gender- based violence (GBV),</p> <p>Sexual exploitation and abuse/sexual harassment (SEA/SH) on workers,</p>	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To develop Code of Conduct by the Contractor, to include it in worker contracts, and to provide training and socialization to workers about this issue, To provide mandatory and regular training to workers on the necessary legal behaviours in the community and the legal 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP

	Gender inequality		<p>consequences of non-compliance with the law,</p> <ul style="list-style-type: none"> • A commitment/policy to cooperate with law enforcement forces investigating perpetrators of gender-based violence, • To report grievances/reports of worker abuse and gender-based violence or sexual harassment to the Supervisory Organization, • To provide opportunities for workers to visit their families regularly, • In case of a sexual assault, to report the situation to the competent authorities in accordance with the Turkish Penal Code, • To follow a fair, effective and rapid procedure based on basic human rights, sensitive to the equality of women and men, and in accordance with the principle of the social state, in providing support and services to victims of violence, 		
Resource Efficiency and Pollution Prevention and Management					
4	Asbestos Pipes	<ul style="list-style-type: none"> • Workers 	<p>In case of asbestos pipes are found in the construction site:</p> <ul style="list-style-type: none"> • To leave asbestos pipes found during excavation untouched, • In case the asbestos pipes need to be removed, to proceed in accordance with the Asbestos Management Plan which should be prepared by the Contractor and approved by the Consultant. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • Asbestos Management Plan • OHS Management Plan

5	Impacts on Water Resources	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Discharges resulting from hydraulic pressure tests will not be discharged directly into the environment. Even if it is drinking water, it will be ensured that it is delivered to the nearest stream and stormwater drainage line in a controlled way. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR
6	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To ensure that construction machinery and equipment are used only in construction sites and routes to minimize the amount of soil that may be exposed to contamination, Machinery and equipment will be checked regularly for oil and fuel leakages, In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, Fuel required for the construction equipment and vehicles to be used in the construction site during the construction period will be provided from the nearest station; If deemed necessary, fuels that can be stored in the construction site will be stored in areas where the necessary leakage measures are taken, To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, Wastes and wastewater (stormwater filled in trenches) that will be generated during the land preparation and construction 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<p>period of the Project will be stored and disposed of in a controlled manner in accordance with the relevant regulations and the management applications described in this report. For this reason, it will not be possible for waste and wastewater generated in the Project Area to interact with the soil environment and cause any impact.</p> <ul style="list-style-type: none"> • The Contractor will take the necessary measures to minimize the risk of erosion as described, but will not be limited to this, • Construction activities (especially excavation works) will be carried out in dry weather conditions as much as possible, • Scraping of topsoil will not be earlier than necessary to prevent soil (wind and water) erosion, • The circulation area of heavy machinery will be limited to minimum, • The construction works will be planned in such a way that new parts will not be opened as much as possible without closing the completed sections, • To prevent wind erosion of the soil, degraded areas and soil stocks will be kept moist and the stock height of the topsoil will not exceed maximum of 2m. • The topography will be restored for stabilization immediately after the 		
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			<p>completion of construction in each location,</p> <ul style="list-style-type: none"> The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, drainage canals suitable for the topographic conditions of the site will be constructed. 		
7	Impacts on Air	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Regular watering of the construction area to reduce the impacts of dust-generating activities such as excavation and backfilling, especially in spring and summer, To store daily backfill, bedding and covering material coming from the quarry in temporary storage areas, to moisturize and compact the material to prevent the from the wind, and covering up, if necessary, Loading and unloading of trucks should be carried out carefully to prevent the materials from being thrown and spread, To cover transport trucks with tarpaulins on public roads, when arriving and leaving the site, Speed limit application for trucks, To clean the tires of trucks to prevent sludge from being carried to the roads, To surround and close the work area, To select modern equipment and vehicles which will meet the relevant emission standards in construction works, 	<ul style="list-style-type: none"> Provincial Directorate of the Ministry of Environment, Urbanization and Climate Change ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP

			<ul style="list-style-type: none"> To check exhaust systems and emission levels of the equipment and vehicles, The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 		
8	Risks or impacts due to wastewater generation	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Site office should be connected to the existing wastewater network (if there is not an existing network for connection, the formation of temporary isolated septic tank pits and the transfer of the wastewater to the nearest wastewater treatment plant by licensed company), 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP
9	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> Storage of hazardous wastes that may occur in the construction site and work site in accordance with the provisions of the "Waste Management Regulation" and forwarding them to the licensed company for disposal. Information regarding the work within this scope will be recorded and the records will be kept in the administrative office, Supervision Consultant should be informed by the Contractor by Monthly/Quarterly ESMP Monitoring about the complete list of vehicles, construction machinery and equipment to be used within the scope of the contract and their maintenance and repair status, Necessary precautions will be taken against spillage and leakage during the maintenance of vehicles, work machinery 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<p>and equipment in the site to prevent soil pollution.</p> <ul style="list-style-type: none"> • Oil filters taken out from vehicles should be collected in a separate lidded container and should never be thrown into the trash or sent to the landfill, • Disposal/recycle of collected waste oils by sending them to the licensed facilities via licensed carriers, • To place the containers where waste is collected on impermeable floor in order to protect them from stormwater. • Waste batteries from the construction site and accumulators from vehicles should be disposed of in accordance with the consumer responsibilities specified in Article 13 of the "Waste Batteries and Accumulators Control Regulation", accordingly, used batteries (from municipal waste) should be collected separately and sent to specific collection areas, if any in the region (for example, to collection area of the Portable Battery Manufacturers Association), • All other hazardous materials will be disposed of in accordance with the Waste Management Regulation. 		
10	Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, • To provide containers for different types of solid waste in construction site buildings 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR • TMP

		<ul style="list-style-type: none"> • Flora and Fauna in the region • Natural Resources 	<p>and work areas and collect the waste in closed containers,</p> <ul style="list-style-type: none"> • To transfer the wastes collected in closed containers at the project site to the waste disposal sites by the Municipality, • Collection of wastes which are possible to be recycled in different waste containers by separating source, • Packaging waste should not be released directly or indirectly into the environment in a way that would harm the environment, and should be stored separately from domestic solid waste and delivered to licensed collection and separation companies for disposal, • Sufficient waste disposal facilities will be provided. All solid waste will be collected from generation points and transported safely to the collection area, • Workers will be trained on waste management applications, • Personal hygiene material/equipment waste (such as disposable masks, gloves) will be collected, temporarily stored, transported, and delivered to waste processing facilities in accordance with the 2020/12 Circular of the Ministry of Environment, Urbanization and Climate Change about Covid-19 Measures, • To take security precautions in the site for excavation to prevent visual disturbances and accidents, closing of the excavation 		
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			<p>area, placement of safety signs, routing of road,</p> <ul style="list-style-type: none"> • Removal of the excavation waste from the site at regular intervals without waiting, as it will not be used in backfilling, • Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, • Excavation waste will be transported in accordance with the Traffic Management Plan to be prepared, • To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project, • The Contractor will take additional mitigation measures in case of a necessity revealed from monitoring. 		
11	Green-house gas Emissions	<ul style="list-style-type: none"> • Flora and Fauna in the region • Natural Resources 	<ul style="list-style-type: none"> • To prevent and reduce waste generation, • To ensure disposal of waste by reducing the waiting time in temporary storage areas, • To ensure that the equipment used within the scope of the project is supplied with high energy efficiency. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • ESMR

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12	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> To use existing construction equipment and materials in a way that will reduce greenhouse gas emissions, To apply speed restrictions for construction vehicles and equipment to optimize fuel efficiency, To carry out regular maintenance of construction vehicles and equipment, To monitor energy usage related to construction vehicles and equipment; and To give training workers on energy efficiency. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR
Community Health and Safety					
13	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The construction site will be surrounded by solid barriers with no gaps between them that will be easily noticeable, security signs will be placed, and access from outside the project area will be prevented, Traffic Management Plan, which specifies how traffic will be managed during the project activities, and Traffic Route Direction Plan, which specifies traffic direction according to daily construction activities will be prepared by the Contractor and the Consultant reviews and approves To prepare brochures by the Contractor, including construction work site plan, start and work completion dates, and contact information of the authorized persons in 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP SEP ESMR

			<p>case of emergency, and to distribute to all buildings in the region,</p> <ul style="list-style-type: none">• Leaflets including work site plan, targeted start, and work completion dates, and contact information of the authorized person in case of emergency will be prepared, and distributed to all vehicle users in that area 10 days before starting of work,• Traffic route direction plans will be prepared, and necessary signboards with illuminated will be placed in visible locations before starting of work,• To provide safe and sufficient pedestrian crossings with standard size and hand railings at intervals not exceeding 50 m in the construction area, and pedestrian areas and bus stops, if necessary,• In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area,• To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation,		
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			<ul style="list-style-type: none"> To keep all equipment working and in good and safe condition during construction period, Workers in the construction site will be given information and training regarding their interactions with the citizens in the construction area. In this context, a grievance mechanism has been established to receive suggestions and grievances from local public in construction regions. 		
14	Noise, Vibration	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Machinery and equipment used during land preparation and construction works should not be operated at the same point/location but will be distributed homogeneously within the area, Selection of equipment with low noise level for the work machinery to be used within the scope of the project, Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, To record the working hours of each vehicle by the operator to monitor total working hours for periodic maintenance, All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, To plan appropriate working hours for the construction works, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR

			<ul style="list-style-type: none"> To inform local public one week before if night work is deemed necessary and noise is high, To carry out all construction activities in accordance with the noise limits specified in the Regulation on Environmental Noise Control and WB EHS Guides, and the Contractor will take additional mitigating measures in case of a necessity revealed from monitoring, To establish a grievance mechanism to manage grievances regarding noise, 		
15	Traffic	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> Traffic route direction plans will be prepared, and necessary signboards will be placed in visible locations before starting of work, To inform public about the construction schedule before the start of the works, A Traffic Management Plan (TMP) will be developed to minimize possible impacts on residential areas located near water network lines and drinking water storage tanks (reservoirs). The TMP will be prepared by the Contractor 30 days before the start of the works, and should include the following details: <ul style="list-style-type: none"> Construction schedule according to stages, Start and duration of the work, General view of existing conditions near construction sites, Determination of the affected areas, Mitigation measures, 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP ESMR TMP

- Traffic route direction plans, including entrance and exit areas, material supply roads, turning points, parking areas, intersections with other traffic roads, etc.
- Roads for pedestrians and vehicles,
- Temporary passageway for citizens to get in and out and provide safe access,
- Traffic controls for the barriers, roads, signalling plans, warning signs, etc.
- Requirements for special vehicles, e.g. oversized ones,
- Accessible roads/roads for construction works (access, ramps, loading, unloading),
- Connection roads for supply vehicles and material storage,
- Expected interaction between pedestrians and vehicles,
- Roles and responsibilities of workers in the construction site regarding traffic management,
- Instructions on procedures for traffic control, including emergencies.

Appropriate signboards will be determined according to the Traffic Signs Regulation No. 18789 dated 19/6/1985. Before the construction works, the Contractor will install all necessary signboards, barriers, and control devices to ensure the safety of the roads. Traffic should be managed to minimize disruption of traffic safety and traffic flow. When it is necessary to close the roads, official permissions will be obtained from the Provincial Traffic Directorate

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			<p>and the traffic route will be determined. The local public who will be affected by the blockages and traffic route direction will be informed promptly. Alternative routes will be determined, and transportation will be planned according to the traffic density; All the vehicles used in transportation activities will comply with the speed limits specified in the Highway Traffic Regulations.</p> <ul style="list-style-type: none"> • Safe driving will be ensured by Project personnel through training, • Buses will be used for transportation of workers, if possible, to avoid additional traffic pressure, • Storage of construction materials, equipment and machinery in traffic lanes will be prevented and, • If possible, traffic activities will be planned to avoid rush hour on local roads 		
16	Diseases	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • The Contractor will develop a site-specific Occupational Health and Safety (OHS) Management Plan based on the site OHS risk assessment in accordance with Turkish legislation and WBG OHS Guides, • To give daily briefings to the workers about issues specific to Covid-19 and epidemics, including cough, hand hygiene and distance measures before starting work, • Workers will be required to self-monitor for possible symptoms (fever, cough) and 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP

			<p>report to their supervisor if they have symptoms or feel unwell,</p> <ul style="list-style-type: none"> • A worker from an affected area or who has been in contact with an infected person will be prevented from entering the site for 14 days, • Each personnel of the Contractor will be subjected to health examination by the workplace doctor before employment in accordance with the Regulation on the Duties, Authorities, Responsibilities and Training of Workplace Doctor and Other Health Personnel, and it will be repeated periodically, not exceeding 1 year at most. 		
17	Stability risks; emergencies, disruption to existing infrastructure and services, etc.	<ul style="list-style-type: none"> • Workers • Local Public 	<ul style="list-style-type: none"> • Emergency-related risks will start during the land preparation and construction stage. Any emergency will be managed through an Emergency Preparedness and Response Plan. Situations included in this Plan: <ul style="list-style-type: none"> - Incidents and accidents requiring first aid and evacuation, - Fire, - Earthquake, - Landslide - Adverse weather conditions (flood, snow, landslides, etc.) - Disruptions of road transport, - Sabotage / terrorist attack, - Toxication, - Environmental incidents, - All health issues, including public health, COVID-19, and epidemics. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • ESMP • EPRP

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18	<p>Risk of gender- based violence (GBV), Sexual exploitation and abuse/ sexual harassment (SEA/SH) on communities, Gender inequality</p>	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> The contractor will ensure that all direct and contract workers are provided with training on project requirements (individually or collectively) before employment. These trainings will also include raising awareness about sexual exploitation, abuse/sexual harassment (SEA/SH), gender-based violence (GBV) and the code of conduct that all project workers must comply with. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP
Land Acquisition, Restrictions on Land Use and Involuntary Resettlement					
19	<ul style="list-style-type: none"> Economic and/or physical displacement impacts on communities including disadvantaged or vulnerable individuals (including informal users, renters, squatters, etc.) groups, etc. Due to sub-project related land acquisition, restrictions on public and private lands; impacts, damage on adjacent lands, etc. other socio-economic impacts on communities including disadvantaged or vulnerable individuals 	<ul style="list-style-type: none"> Workers Local Public 	<p>There will be not land acquisition in the ASAT4-W3 Project. However, in case of any change in the construction site during the execution of the project, the following issues will be taken into consideration:</p> <ul style="list-style-type: none"> In case of any unexpected damage in the neighbouring lands, assets, crops, and structures during construction works, losses will be compensated by the contractor according to the principles specified in the Resettlement Framework, Support will be provided to citizens affected by the project to enable them to improve their living standards, Establishment of temporary safety bridges to avoid any inconvenience to the citizens until trench excavation works in front of 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> SEP Resettlement Plan (RP)

			citizens' shops, houses and common areas are closed.		
Cultural Heritage					
20	Impacts on critical cultural heritage	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> In case of an unforeseen situation during the construction period, the necessary permissions and procedures will be fulfilled in accordance with the Chance Find Procedure by applying to Ministry of Culture and Tourism General Directorate of Cultural Heritage and Museums-Antalya Cultural Heritage Protection Regional Board Directorate. 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan
	Impacts on chance findings, intangible cultural heritage, etc.	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> However, in case of any cultural findings by chance during construction, Contractor will carry out the chance finds procedure during land preparation and construction works in accordance with Article 4 of the Law No. 2863 on the Protection of Cultural and Natural Assets. According to this content: <ul style="list-style-type: none"> If any movable or immovable cultural property is found by chance, construction work will be stopped immediately. The relevant Preservation Board or Museum Directorate will be informed within three days at the latest and the security of the area will be ensured by the Contractor. Construction work will 	<ul style="list-style-type: none"> Cultural Heritage Protection Regional Board Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> ESMP Cultural Heritage Management Plan

			<p>not continue until official notification is received.</p> <ul style="list-style-type: none"> • Project workers will be given training on the chance finds procedure. • Also, in case of any cultural findings by chance, the Contractor will prepare Chance Find Procedure Document and submit to ALDAŞ Supervision Consultant. 		
Stakeholder Engagement and Information Disclosure					
21	<p>Risks and impacts on stakeholders that will be managed through appropriate stakeholder engagement and information disclosure mechanisms; disproportionate risks and impacts on disadvantaged and vulnerable individuals and groups that are to be managed through specific measures and/or assistance ensuring use of dedicated approaches and increased level of resources for engagement and meaningful consultation with these stakeholders, etc</p>	<ul style="list-style-type: none"> • Local Public 	<ul style="list-style-type: none"> • During the pre-construction stage, a Public Participation Meeting will be held in the regions where construction will be carried out within the scope of the ESMP, and citizens will be informed about the projects and their opinions and suggestions will be received. • Activities related to the Public Participation Meeting, information about the participants and the consultation meeting are included in detail in the SEP. • During the construction stage, Stakeholders will be informed about the projects through the information mechanisms explained in the SEP. • A Grievance Mechanism has been established within the scope of the ESMP and detailed issues regarding this Grievance Mechanism are explained in the SEP. 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> • SEP

7.1.9. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts) Impact Mitigation Plan During Operation Stage

OPERATION STAGE					
Ref	Impact Description	Sensitive Receptor(s)	Management / Mitigation Measure	Responsibility for Implementation of Measure	Relevant Management Plan / Procedure
Labor and Working Conditions					
1	Occupational Health and Safety risks or impacts	<ul style="list-style-type: none"> Workers 	<ul style="list-style-type: none"> To provide training to the workers and operation and maintenance personnel within the scope of the Regulation on the Procedures and Principles of Occupational Health and Safety Training, To provide workers personal protective equipment suitable for his work (ear protectors, safety hats, vests, etc.) to minimize occupational health and safety risks, Before the pumping stations are put into operation, the necessary electrical tests will be carried out to check whether the electrical connections and other related equipment are performed correctly, Necessary health and safety signs and traffic signs will be placed around the project site. Workers will be informed and warned about these signs, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP LMP OHS Management Plan EPRP

			<ul style="list-style-type: none"> • After any accident/incident occurs, accident/incident forms will be filled and root cause analysis will be carried out, • To place safety signboards in the construction site such as "Danger", "Entry is Prohibited", etc. in accordance with the Occupational Health and Safety Regulations, • To place always appropriate and sufficient firefighting equipment in the construction area in accordance with the relevant Regulation. 		
Resource Efficiency and Pollution Prevention and Management					
2	Impacts on Water Resources	<ul style="list-style-type: none"> • Local Public • Flora and Fauna in the region 	<ul style="list-style-type: none"> • In case of any failure of the valves located in the discharge lines of drinking water tanks during the operation phase, regular maintenance of the valves will be carried out by the ASAT Repair- Maintenance Team in order to prevent the uncontrolled discharge of water in the water tank and flood at the nearest discharge point. 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP
3	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> • Local Public • Flora and Fauna in the region 	<ul style="list-style-type: none"> • To provide training to the workers on the appropriate management of liquid waste, • Machinery and equipment will be checked regularly for oil and fuel leakages, • In case of any accident, leakage or spillage, the necessary repair and/or maintenance will be carried out immediately in accordance with the standards, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

			<ul style="list-style-type: none"> To comply with the provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites, The potential impact of surface flow will be minimized by establishing a suitable drainage system on the site. In this context, drainage canals suitable for the topographic conditions of the site will be constructed. 		
4	Hazardous Waste Generation (Oakum, contaminated package, end-of-life-tire etc..)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> To develop and implement safe delivery, storage, handling and spill response procedures for chemicals, including chlorine, in accordance with safety data sheets, To stop the spillage of spilled materials and cleaning them up promptly, To provide training to workers on safe delivery, storage, handling and spill response procedures, In order to prevent soil pollution, necessary precautions will be taken for the leakages during the maintenance of the vehicles, construction machinery and equipment on site, <p>Oil filters taken out from vehicles should be collected in a separate lidded container and should never be thrown into the trash or sent to the landfill,</p> <ul style="list-style-type: none"> To avoid any application that may threaten personnel or public health in all activities including the collection, temporary storage, transportation and disposal of waste throughout the project. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

5	Non-hazardous Waste Generation (Solid Waste, Packing Waste, Excavation Waste, etc.)	<ul style="list-style-type: none"> Workers Local Public Flora and Fauna in the region Natural Resources 	<ul style="list-style-type: none"> To manage the waste that will be generated within the scope of the project according to the waste management hierarchy, Collection of wastes which are possible to be recycled in different waste containers by separating source, To provide training to workers on waste management applications, Since the material removed during pipe replacement etc. cannot be used in the backfilling, removal of it from the site at regular intervals without waiting, Disposal of excavation waste by transporting them to excavation sites determined by the District Municipality, without accumulating and/or temporary storage, 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
6	Climate Change Risks	<ul style="list-style-type: none"> Local Public Flora and Fauna in the region 	<ul style="list-style-type: none"> Existing construction equipment and materials will be used in a way that reduces greenhouse gas emissions, Speed restrictions will be applied to construction vehicles and equipment to optimize fuel efficiency, Regular maintenance of construction vehicles and equipment will be carried out, Energy usage related to construction vehicles and equipment will be monitored; And, Workers will be given training on energy efficiency. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP

Community Health and Safety					
7	Community Health and Safety risks	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> Continuous monitoring of the drinking water network for hydraulic and water quality purposes for water quality and water supply, To ensure adequate chlorine dosing in the drinking water tank and that the residual chlorine content is at the dosage specified by the network regulations, Continuous control of the chlorination process to protect water quality in the drinking water network, In order to protect the drinking water storage tank from external factors, the tank area will be surrounded by fences and barbwire, To prevent any kind of pollution and contamination that may reach the water storage tank through the operating personnel, To clean stormwater collection manholes in the well areas, The repair area will be surrounded by solid barriers with no gaps between them that will be easily noticeable and, security signs will be placed, and access from outside the project area will be prevented, Periodic monitoring of the operation of the entire water network will be carried out and in case of any failure in the system (blockage, pipe damage, etc.), necessary 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP SEP

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			<p>maintenance and repairs will be carried out on time,</p> <ul style="list-style-type: none"> • Before maintenance/repair work begins, a schedule of interruptions in water supply will be determined and the local public will be informed about the interruption in advance, • In accordance with the Occupational Health and Safety Regulations, safety signs with reflectors that can be seen both day and night, such as “Danger”, “Entry Prohibited”, etc., should be placed in construction site, there should be a pointer during work, and a safety line should be surrounded around the work area, • To place always appropriate and sufficient firefighting equipment in the construction areas in accordance with the relevant Regulation, • To provide technical training to the personnel who will deal with chlorination in the drinking water tank, to use protective masks, glasses and gloves, and to ensure that storage and dosing areas are ventilated. 		
8	Noise Vibration	<ul style="list-style-type: none"> • Local Public 	<ul style="list-style-type: none"> • The number of vehicles will be limited during operation and maintenance. Workers will use ear protection. During maintenance activities, if necessary, noise measurements will be carried out near noise-sensitive areas, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

			<ul style="list-style-type: none"> • Selection of equipment with low noise level for the work machinery to be used within the scope of the project, • To carry out regular maintenance in manoeuvre chambers, • Regular and periodic maintenance of work machinery and equipment and daily maintenance in each shift, • To record each vehicle's operating hours by the operator in order to monitor total operating hours for periodic maintenance, • All the vehicles used in transportation activities must comply with the speed limits specified in the Highway Traffic Regulations, • To inform local public one week before if night work is deemed necessary and noise is high, • To establish a grievance mechanism to manage grievances regarding noise. 		
9	Traffic	<ul style="list-style-type: none"> • Local Public 	<ul style="list-style-type: none"> • To prepare traffic direction plans and necessary signs during maintenance and repair activities and place them in visible locations, • To minimize potential traffic impacts on residential areas near water network and drinking water storage tanks (reservoirs). 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP
10	Diseases	<ul style="list-style-type: none"> • Workers 	<ul style="list-style-type: none"> • Analysis of water at the end points of drinking water network once a month to meet the Regulation on Water Intended for Human Consumption, 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • ESMP

			<ul style="list-style-type: none"> Analysis of each drinking water network every three months in the absence of an analysis that meets the requirements of Water Intended for Human Consumption. 		
11	<ul style="list-style-type: none"> Stability risks; emergencies, disruption to existing infrastructure and services, etc. 	<ul style="list-style-type: none"> Workers Local Public 	<ul style="list-style-type: none"> To develop and implement an Emergency Preparedness and Response Plan, To establish an emergency response team and provide training to this team, To provide an Emergency Information Form to each worker or operator, including the contact information of the contact person in case of an emergency, and the ambulance number, To keep Emergency Information Forms in the service areas. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> ESMP
<ul style="list-style-type: none"> Stakeholder Engagement 					
12	<ul style="list-style-type: none"> Inappropriate stakeholder engagement and disclosure and grievance mechanisms 	<ul style="list-style-type: none"> Local Public 	<ul style="list-style-type: none"> An effective Grievance Redress Mechanism will continue during the operation period, allowing potentially affected community members and workers to express concerns about the Project under the ESMP and have their grievances addressed adequately and in a timely manner. 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> SEP

7.2. Key Performance Indicators for 3 Sub-Projects

Table 9: Pre-Construction and Construction Stage

Key Performance Indicators	Target
Labor and Working Conditions / Accommodation Camp Site Conditions	
Number of worker grievances not closed out within the target time frame	Zero worker grievances not closed out on time
Occupational Health and Safety	
% of closing of reported non-compliances	100%
Reporting near-miss accident	100%
% of Toolbox attending	>90
% of Risk Assessment compliance	>90
% of Legal Requirements compliance	>90
Results of scheduled audits	>85
% of attendance at scheduled trainings	>90
Risk of Gender-Based Violence Gender Inequality	
% of attendance at Code of Conduct trainings	100
Community Health and Safety	
Number of community health safety & security grievances from local communities recorded in the Grievance Management System.	Zero grievances / maximum continuous improvement
Number of reported community health & safety incidents	Zero incidents per year
% of attendance at consultation meetings	>85
Traffic	
Number of permits related to road closure and road direction	100
Number of reported traffic-related grievances	Zero incidents per year
Soil	
Volume of Soil Pollution	Zero reported incidents related to soil quality and maximum continuous improvement
Air Quality	

Air Quality incidents	Zero grievances per year
Wastewater	
Wastewater Collection System	Zero grievances per year
Waste	
Waste Generation	Minimizing and continuously reducing the total amount of waste generated
Waste Disposal (Hazardous Waste, Packaging Waste, Domestic Waste)	Ratio of recovered/reused/recycled amount to landfill
Disposal of Excavation Waste	Maximum number of records related transportation and disposal
Noise	
Noise and Vibration incidents	Zero reported incidents related to noise and vibration and maximum continuous improvement
Non-Compliance with Project standards	Zero Non-Compliance Reports (NCRs) per year
Number of noise-related community grievances	Zero grievances per year
Cultural Heritage	
Historical or Cultural Artifacts/Sites	100% recording of Chance Finds
Grievance Mechanism	
Worker and Citizen Grievances	Grievance records, number of grievances, percentage of grievances closed within the targeted time frame (Zero per year)
Emergencies and Stability Risks	
Number of Emergency Assembly Points	Maximum number of determined Emergency Assembly Points
Infrastructure damage and disruption to the services	Zero damage per year Minimum number of grievances
Number of personnel in the Emergency Response Team	Minimum number of personnel specified in the OHS Regulation
Number of trainings given to the Emergency Response Team	Maximum number of trainings per year
Percentage of participation to the trainings given to Emergency Response Team	100%

Stakeholder Engagement	
Number of Stakeholder Engagement Activities	% 90 attendance at consultation meetings
Number of grievances received	Zero grievances per year
Number of corrective actions	Zero open grievances per month

Table 10: Operation Stage

Key Performance Indicators	Target
Occupational Health and Safety Risks or Impacts	
% of closing of reported non-compliances	100%
Reporting near-miss accident	100%
% of Risk Assessment compliance	>90
% of Legal Requirements compliance	>90
Impacts of Water Resources	
Water Quality Analysis	100% compliance with Regulation on Water Intended for Human Consumption
Impacts on Soil (Contamination, Erosion)	
Amount of contaminated soil	100% compliance with Regulation on Control of Soil Pollution and Point Source Pollution
Environmental spill/leakage incident records/reports	Zero spill incidents per year
Community health and safety risks	
Minimum number of community health, safety and security grievances from local public	Zero grievances per year/ maximum continuous improvement
Minimum number of community health and safety incidents	Zero incidents per year
Noise	
Grievance Records	Zero grievances per year
Water Level	
SCADA System Indicators	Minimum 2 bar network pressure at building inlets
Water Quality	

Environmental and Social Management Plan

Water Quality Analysis	100% Compliance with the chlorine limit values specified in the Regulation on Water Intended for Human Consumption
Emergencies	
Incident/Accident Records	Zero incidents/accidents per year
Stakeholder Engagement	
Stakeholder information before maintenance and repair works and number of grievance records	100% information and zero grievances per year

7.3. ENVIRONMENTAL AND SOCIAL IMPACTS MONITORING PLAN

7.3.1. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage -Monitoring Plan for Pre-Construction and Construction Stage

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Pre-construction and Construction	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> Working conditions Accommodation Camp Site conditions 	<ul style="list-style-type: none"> Management Office 	<ul style="list-style-type: none"> Worker Grievances 	<ul style="list-style-type: none"> Weekly during construction stage 	<ul style="list-style-type: none"> World Bank General EHS Guide Occupational Health and Safety Regulation IFC and EBRD Accommodation Guide. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of worker grievances not closed out within the target time frame 	<ul style="list-style-type: none"> Within contract price
2	Pre-construction and Construction	Occupational Health and Safety	<ul style="list-style-type: none"> Illness Incident/accident reports Grievances Training and training 	<ul style="list-style-type: none"> At the construction site and in the construction site building 	<ul style="list-style-type: none"> On-site inspections Interviews with workers Grievance records Training and toolbox training records 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide Occupational Health and Safety Regulation Regulation on Health 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> % of closing of reported non-compliances Reporting of near-miss accidents. % of Toolbox 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
			<ul style="list-style-type: none"> materials (presentations, participant lists etc.) OHS practices in the site (use of PPE etc.) Legal Requirements Drill reports 		<ul style="list-style-type: none"> Contract samples Internal and external audit Accident and near-miss records. Existence of an adequate OHS organizational structure 		and Safety Conditions for using work equipment		<ul style="list-style-type: none"> attending % of Risk Assessment compliance % of Legal Requirements compliance Results of scheduled audits % of attendance at scheduled trainings 	
3	Construction Stage	Risk of gender-based violence (GBV), Sexual exploitation and abuse/sexual harassment	<ul style="list-style-type: none"> Grievance Forms 	<ul style="list-style-type: none"> Monitoring will be conducted in the construction site and in the areas affected by the Construction Site 	<ul style="list-style-type: none"> Grievance Mechanism 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> % of attendance at Code of Conduct trainings 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
		(SEA/SH) on workers Gender inequality,								
4	Construction Stage	Community Health and Safety	<ul style="list-style-type: none"> Restriction of Social Life 	<ul style="list-style-type: none"> Monitoring will be conducted in the areas affected by the Construction Site 	<ul style="list-style-type: none"> To provide training to the workers on environmental and social issues, specifying the issues to be considered during work and keeping relations with citizens under control, To check the safety and information signs placed so that the safety and daily lives of citizens are not affected, Monitoring the access of 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> IFC Guide Regulation on Traffic Signs WBG General EHS Rules 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of community health safety & security grievances from local communities recorded in the Grievance Management System. Number of reported community health & safety incidents % of attendance at consultation meetings 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>citizens to the areas used individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works.</p> <ul style="list-style-type: none"> • Monitoring the permits and approved sketches regarding road closures and road directions, • Monitoring the safety measures for road closures and road directions, and the traffic signs • To check the 					

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					necessary procedures regarding traffic on site, for safety purposes					
5	Construction Stage	Traffic	<ul style="list-style-type: none"> Traffic Safety 	<ul style="list-style-type: none"> On streets, avenues and connected roads where construction work is carried out 	<ul style="list-style-type: none"> By checking that pedestrian crossings and pedestrian areas in the construction area are safe and adequate, 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> Highway Traffic Law WBG General EHS Regulations Regulations on Traffic Signs 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of permits related to road closure and road direction Number of reported traffic-related grievances 	<ul style="list-style-type: none"> Within Contract Price
6	Construction Stage	Soil Environment	<ul style="list-style-type: none"> Accidents/ Spills 	<ul style="list-style-type: none"> Sub-project area 	<ul style="list-style-type: none"> Sampling and analysis Spot checks Grievance records Environmental incident reports 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> Regulation on Control of Soil Pollution and Point Source Contaminated Lands Regulation 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Volume of soil pollution 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							<ul style="list-style-type: none"> on on Waste Management • Soil Conservation and Land Use Law and related Regulations 			
7	Construction Stage	Air Quality	<ul style="list-style-type: none"> • Dust 	<ul style="list-style-type: none"> • Within the scope of the Project, in areas where the construction equipment is working heavily 	<ul style="list-style-type: none"> • By watering against dust formation during excavation work, by controlling the backfill material storage areas, and emissions of construction equipment. 	<ul style="list-style-type: none"> • Throughout the project construction stage. • On case of grievance 	<ul style="list-style-type: none"> • IFC, EHS Guide • Relevant Regulation of Ministry of Environment, Urbanization and Climate Change • Air Quality 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • Air Quality Incidents 	<ul style="list-style-type: none"> • Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Assessment and Management Regulation			
8	Pre-construction and Construction Stage	Wastewater Pollution	<ul style="list-style-type: none"> Wastewater 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> In areas where there is sewerage connection to the existing network, wastewater bills of construction site (septic discharge receipts in case there is no sewerage connection) 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Urban Wastewater Treatment Regulation IFC, EHS Guide World Bank General EHS Guides 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Wastewater Collection System 	<ul style="list-style-type: none"> Within Contract Price
9	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Hazardous Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Monitoring temporary storage areas in case of hazardous waste generation. 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Regulation on Health 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Hazardous Waste) 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							and Safety Measures in Working with Asbestos			
10	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Domestic Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> By checking occupancy of the containers and by observations in the construction site to ensure that there is no random waste around. To place separate containers for recyclable waste and to keep quarterly reports. 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste Regulation 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Domestic Waste) 	<ul style="list-style-type: none"> Within Contract Price
11	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Packaging Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Collection of packaging waste in separate containers 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Packaging) 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> By keeping records of packaging waste delivered to Collection and Separation Companies. 		<ul style="list-style-type: none"> Zero Waste Regulation Packaging Waste Control Regulation 	<ul style="list-style-type: none"> Contractor 	Waste)	
12	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Waste Oil 	<ul style="list-style-type: none"> In construction sites where work machines operate 	<ul style="list-style-type: none"> By monitoring oil leakages and oil changes in the construction site. By monitoring maintenance and repair of construction equipment. 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Regulation on Management of Waste Oils 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Hazardous Waste) 	<ul style="list-style-type: none"> Within Contract Price
13	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Excavation Waste 	<ul style="list-style-type: none"> Monitoring of excavation work areas and work trucks carrying excavation waste 	<ul style="list-style-type: none"> Monitoring of excavation work areas in the construction site by Field Engineers. Monitoring the access of 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Disposal of Excavation Waste 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>citizens to the areas used individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works.</p> <ul style="list-style-type: none"> Monitoring of excavation work areas and work trucks carrying excavation waste by Field Engineers. 		<p>Regulation</p> <ul style="list-style-type: none"> Regulation on Control of Excavation and Demolition Wastes 			
14	Construction Stage	Environmental Noise Level	<ul style="list-style-type: none"> Noise 	<ul style="list-style-type: none"> Within the scope of the Project, in areas where the construction equipment work is heavy 	<ul style="list-style-type: none"> By measuring noise levels with portable devices at the nearest sensitive receptors, especially in areas where 	<ul style="list-style-type: none"> If any grievances are received regarding noise monthly during 	<p>Environmental Noise Control Regulation (Environmental Noise Limits:</p>	<ul style="list-style-type: none"> Environmental Health Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Noise and Vibration incidents Non-Compliance Records with Project Standards 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>construction equipment work is heavy.</p> <ul style="list-style-type: none"> Measurements to be performed by an authorized environmental laboratory in case of grievance 	the project construction stage.	<p>LAeq,5min.day:65 dB(A)</p> <ul style="list-style-type: none"> LAeq,5min.evening:60 dB(A) LAeq,5min.night: 55 dB(A) (Daytime): For the time period 07:00-19:00 → (Laksham): For the time period 19:00-23:00 → (Lnight): For the time period 23:00-07:00 		<ul style="list-style-type: none"> Number of community grievances regarding noise 	
15	Construction	Socio-economic Environment	<ul style="list-style-type: none"> Stability Risks Infrastructure Damage 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Incident records Receipts of compensation payments 	<ul style="list-style-type: none"> Monthly during construction stage 	<ul style="list-style-type: none"> Penal Code World Bank General 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Emergency Assembly Points Infrastructure damage and 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							EHS Guide • WBG Water and Sanitation EHS Guide		disruption of the services	
16	Construction Stage	Cultural Heritage	<ul style="list-style-type: none"> Artifacts/ Areas of Historical or Cultural Value 	<ul style="list-style-type: none"> Excavation Areas 	<ul style="list-style-type: none"> On-site inspection Chance Find Procedure 	<ul style="list-style-type: none"> In case of a chance find comparison of archaeological and cultural structures. 	<ul style="list-style-type: none"> Law on the Conservation of Cultural and Natural Property Chance Find Procedure World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of Chance Find Procedure records and reports 	<ul style="list-style-type: none"> Within Contract Price
17	Pre-Construction and Construction Stage	Grievance Mechanism	<ul style="list-style-type: none"> Internal and External Grievances 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Number and content of grievances received. Number of open 	<ul style="list-style-type: none"> In case of any grievance 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> Grievance Records, Number of Grievances Percentage 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> and closed grievances. Average grievance response and closure time Determination of grievance channels 			<ul style="list-style-type: none"> Contractor 	of grievances closed within the targeted time	
18	Pre-Construction and Construction Stage	Emergencies	<ul style="list-style-type: none"> Determined emergency assembly points Emergency Response Team Trainings given to the Emergency Response Team 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Assignment documents of Emergency Response Team members Training records of Emergency response team members 	<ul style="list-style-type: none"> Throughout the Project 	<ul style="list-style-type: none"> Information Training on Emergency First Aid and Emergency Preparedness precautions 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of Emergency Assembly Points Number of personnel in the emergency response team Number of trainings given to the Emergency Response Team Percentage of participation to the 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
									trainings given to Emergency Response Team	
19	Pre-Construction and Construction Stage	Stakeholder Engagement and Disclosure of Information	<ul style="list-style-type: none"> Stakeholder Engagement Activities 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Ongoing visual inspection Control of community information system (signs, verbal notifications, etc.) is in place before work begins Notification of the grievance mechanism Grievance Records including responsive activity, timing and corrective actions 	<ul style="list-style-type: none"> Monthly during construction phase 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of stakeholder engagement activities Number of grievances received Number of corrective actions 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> Stakeholder engagement records Public disclosure of SEP and ESMP 					

7.3.2. ASAT4-W1 Construction of Manavgat Ulukapı Force Main and Drinking Water Storage- Monitoring Plan for Operation Stage

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Operation	Occupational health and safety risks or impacts	<ul style="list-style-type: none"> Incident/accident reports OHS practices in the site (use of PPE etc.) Legal Requirements 	Work areas (areas excavate for maintenance and repair)	<ul style="list-style-type: none"> Accident records Existence of an adequate OHS organization structure 	During Maintenance and Repair Work	<ul style="list-style-type: none"> Occupational Health and Safety Regulation Regulation on Health and Safety Conditions in the Use of Work 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Percentage of closing Non-Conformance Reports Reporting of near-miss accidents Risk Assessment compliance percentage Legal Requirement 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Equipment		compliance percentage	
2	Operation	Impacts of water resources on human health	<ul style="list-style-type: none"> Water quality 	Drinking Water Storage Tanks	<ul style="list-style-type: none"> Sampling and on-site/laboratory measurements 	Continuously	<ul style="list-style-type: none"> Water Pollution Control Regulation 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Water quality analysis 	Own Resources of ASAT
3	Operation	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Contaminated soil 	Work areas (excavation areas for maintenance and repair)	<ul style="list-style-type: none"> Sampling and on-site/laboratory measurements 	In Case of any Failure	<ul style="list-style-type: none"> Regulation on Soil Pollution Control and Point Source Contaminated Sites 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Amount of contaminated soil Environmental spill/leakage incident records/reports 	Own Resources of ASAT
4	Operation	Community health and safety risks	<ul style="list-style-type: none"> Community safety measures 	Work areas (for maintenance and repair)	<ul style="list-style-type: none"> Accident Records Grievance Records 	In case of grievance	<ul style="list-style-type: none"> World Bank General EHS Guidelines 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Minimum number of community health, safety, and security grievances from local public. Minimum number of community health and safety 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
									incidents reported.	
5	Operation	Noise	<ul style="list-style-type: none"> Noise 	In the water storage tank	<ul style="list-style-type: none"> By measurements with decibel meter during heavy construction works at the nearest sensitive receptors Measurements to be performed by an authorized environmental laboratory in case of grievance 	Annually, in case of grievance	<ul style="list-style-type: none"> Not to exceed the limit values defined in the Regulation on Environmental Noise Control 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Grievance Records 	Own Resources of ASAT
6	Operation	Water Level	<ul style="list-style-type: none"> Water Level 	In the water storage tank	<ul style="list-style-type: none"> By water level device By SCADA system By Manometer 	Continuously	<ul style="list-style-type: none"> Water Pollution Control Regulation Regulation on Water Intended for Human 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> SCADA Indicators 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Consumption • Pressure measurements will be made from Points of Intersection S10; (km:0+169) and S61; km:1+154			
7	Operation	Water Quality	<ul style="list-style-type: none"> Residual chlorine 	In the water network	<ul style="list-style-type: none"> By land measurements at the dead ends of the water network 	Daily, in case of any grievance	<ul style="list-style-type: none"> Water Pollution Control Regulation Regulation on Water Intended for Human 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Water quality analysis 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Consumption			
8	Operation	Emergencies	<ul style="list-style-type: none"> Number of determined assembly points Number of personnel assigned to the emergency response team Number of trainings given to the emergency team Number of personnel attending emergency trainings 	Work areas (excavation areas for maintenance and repair)	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Assignment documents of Emergency Response Team members 	Continuously	<ul style="list-style-type: none"> Information Training on First Aid and Emergency Preparedness measures 	ASAT	<ul style="list-style-type: none"> Incident/Accident Records 	Own Resources of ASAT
9	Operation	Stakeholder Engagement	<ul style="list-style-type: none"> Grievance Mechanism 	Work sites (for maintenance and repair)	<ul style="list-style-type: none"> Grievance Records 	In case of any Grievance Record	<ul style="list-style-type: none"> WBG Conservation Policies 	ASAT	Stakeholder information before maintenance and repair works and number of	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
									grievance records	

7.3.3. ASAT4-W2 Rehabilitation of Manavgat İlca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District- Monitoring Plan for Pre-Construction and Construction Stage

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Pre-construction and Construction	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> Working conditions Accommodation Camp Site conditions 	<ul style="list-style-type: none"> Management Office 	<ul style="list-style-type: none"> Worker Grievances 	<ul style="list-style-type: none"> Weekly during construction stage 	<ul style="list-style-type: none"> World Bank General EHS Guide Occupational Health and Safety Regulation IFC and EBRD Accommodation Guide. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of worker grievances not closed out within the target time frame 	<ul style="list-style-type: none"> Within contract price
2	Pre-construction and	Occupational Health and Safety	<ul style="list-style-type: none"> Illness Incident/accident reports 	<ul style="list-style-type: none"> At the construction site and in the 	<ul style="list-style-type: none"> On-site inspections Interviews with workers 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> % of closing of reported 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
	Construction		<ul style="list-style-type: none"> Grievances Training and training materials (presentations, participant lists etc.) OHS practices in the site (use of PPE etc.) Legal Requirements Drill reports 	construction site building	<ul style="list-style-type: none"> Grievance records Training and toolbox training records Contract samples Internal and external audit Accident and near-miss records. Existence of an adequate OHS organizational structure 		<ul style="list-style-type: none"> Occupational Health and Safety Regulation Regulation on Health and Safety Conditions for using work equipment 	<ul style="list-style-type: none"> Contractor 	<ul style="list-style-type: none"> non-compliance Reporting of near-miss accidents % of Toolbox attending % of Risk Assessment compliance % of Legal Requirements compliance Results of scheduled audits % of attendance at scheduled trainings 	
3	Construction Stage	Risk of gender-based violence (GBV),	<ul style="list-style-type: none"> Grievance Forms 	<ul style="list-style-type: none"> Monitoring will be conducted in the 	<ul style="list-style-type: none"> Grievance Mechanism 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> % of attendance at Code of Conduct 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
		Sexual exploitation and abuse/sexual harassment (SEA/SH) on workers Gender inequality,		construction site and in the areas affected by the Construction Site				<ul style="list-style-type: none"> Contractor 	Trainings	
4	Construction Stage	Community Health and Safety	<ul style="list-style-type: none"> Restriction of Social Life 	<ul style="list-style-type: none"> Monitoring will be conducted in the areas affected by the Construction Site 	<ul style="list-style-type: none"> To provide training to the workers on environmental and social issues, specifying the issues to be considered during work and keeping relations with citizens under control, To check the safety and information signs placed so 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> IFC Guide Regulation on Traffic Signs WBG General EHS Rules 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of community health safety & security grievances from local communities recorded in the Grievance Management System Number of reported community health & safety incidents 	<ul style="list-style-type: none"> Within contract price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>that the safety and daily lives of citizens are not affected,</p> <ul style="list-style-type: none"> Monitoring the access of citizens to the areas used individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works. Monitoring the permits and approved sketches regarding road closures and road directions, Monitoring the safety measures 				<ul style="list-style-type: none"> % of attendance at consultation meetings 	

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					for road closures and road directions, and the traffic signs <ul style="list-style-type: none"> To check the necessary procedures regarding traffic on site, for safety purposes 					
5	Construction Stage	Traffic	<ul style="list-style-type: none"> Traffic Safety 	<ul style="list-style-type: none"> On streets, avenues and connected roads where construction work is carried out 	<ul style="list-style-type: none"> By checking that pedestrian crossings and pedestrian areas in the construction area are safe and adequate, 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> Highway Traffic Law WBG General EHS Regulations Regulations on Traffic Signs 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of permits related to road closures and road directions. Number of reported traffic-related grievances 	<ul style="list-style-type: none"> Within Contract Price
6	Construction Stage	Soil Environment	<ul style="list-style-type: none"> Accidents/ Spills 	<ul style="list-style-type: none"> Sub-project area 	<ul style="list-style-type: none"> Sampling and analysis Spot checks Grievance records 	<ul style="list-style-type: none"> Continuously throughout the project 	<ul style="list-style-type: none"> Regulation on Control of Soil Pollution 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant 	<ul style="list-style-type: none"> Volume of soil pollution 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> Environmental incident reports 	construction stage.	<ul style="list-style-type: none"> and Point Source Contaminated Lands Regulation on Waste Management Soil Conservation and Land Use Law and related Regulations 	<ul style="list-style-type: none"> Contractor 		
7	Construction Stage	Air Quality	<ul style="list-style-type: none"> Dust 	<ul style="list-style-type: none"> Within the scope of the Project, in areas where the construction equipment is working heavily 	<ul style="list-style-type: none"> By watering against dust formation during excavation work, by controlling the backfill material storage areas, and emissions of construction 	<ul style="list-style-type: none"> Throughout the project construction stage On case of grievance 	<ul style="list-style-type: none"> IFC, EHS Guide Relevant Regulation of Ministry of Environment, Urbanization 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Air Quality Incidents 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					equipment.		<ul style="list-style-type: none"> on and Climate Change Air Quality Assessment and Management Regulation 			
8	Pre-construction and Construction Stage	Wastewater Pollution	<ul style="list-style-type: none"> Wastewater 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> In areas where there is sewerage connection to the existing network, wastewater bills of construction site (septic discharge receipts in case there is no sewerage connection) 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Urban Wastewater Treatment Regulation IFC, EHS Guide World Bank General EHS Guides 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Wastewater Collection System 	<ul style="list-style-type: none"> Within Contract Price
9	Pre-construction and	Waste	<ul style="list-style-type: none"> Hazardous Waste 	<ul style="list-style-type: none"> Throughout the construction 	<ul style="list-style-type: none"> Monitoring temporary storage areas in 	<ul style="list-style-type: none"> Daily throughout the 	<ul style="list-style-type: none"> Waste Management 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision 	<ul style="list-style-type: none"> Waste Generation Waste 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
	Construction Stage			site building and work area	case of hazardous waste generation.	project construction stage	ent Regulation • Regulation on Health and Safety Measures in Working with asbestos	n Consultant • Contractor	Disposal (Hazardous Waste)	
10	Pre-construction and Construction Stage	Waste	• Domestic Waste	• Throughout the construction site building and work area	<ul style="list-style-type: none"> • By checking occupancy of the containers and by observations in the construction site to ensure that there is no random waste around. • To place separate containers for recyclable waste and to keep quarterly 	• Daily throughout the project construction stage	<ul style="list-style-type: none"> • Waste Management Regulation • Zero Waste Regulation 	<ul style="list-style-type: none"> • ASAT • ALDAŞ Supervision Consultant • Contractor 	<ul style="list-style-type: none"> • Waste Generation • Waste Disposal (Domestic Waste) 	• Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					reports.					
11	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Packaging Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Collection of packaging waste in separate containers By keeping records of packaging waste delivered to Collection and Separation Companies. 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste Regulation Packaging Waste Control Regulation 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Packaging Waste) 	<ul style="list-style-type: none"> Within Contract Price
12	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Waste Oil 	<ul style="list-style-type: none"> In construction sites where work machines operate 	<ul style="list-style-type: none"> By monitoring oil leakages and oil changes in the construction site. By monitoring maintenance and repair of construction equipment. 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Regulation on Management of Waste Oils 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Hazardous Waste) 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
13	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Excavation Waste 	<ul style="list-style-type: none"> Monitoring of excavation work areas and work trucks carrying excavation waste 	<ul style="list-style-type: none"> Monitoring of excavation work areas in the construction site by Field Engineers. Monitoring the access of citizens to the areas used individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works. Monitoring of excavation work areas and work trucks carrying excavation waste by Field Engineers. 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste Regulation Regulation on Control of Excavation and Demolition Wastes 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Disposal of Excavation Waste 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
14	Construction Stage	Environmental Noise Level	<ul style="list-style-type: none"> Noise 	<ul style="list-style-type: none"> Within the scope of the Project, in areas where the construction equipment work is heavy 	<ul style="list-style-type: none"> By measuring noise levels with portable devices at the nearest sensitive receptors, especially in areas where construction equipment work is heavy. Measurements to be performed by an authorized environmental laboratory in case of grievance 	<ul style="list-style-type: none"> If any grievances are received regarding noise monthly during the project construction stage. 	<ul style="list-style-type: none"> Environmental Noise Control Regulation (Environmental Noise Limits : LAeq,5min.day: 65 dB(A) LAeq,5min.evening: 60 dB(A) LAeq,5min.night: 55 dB(A) (Daytime) : For the time period 07:00-19:00 (Laksham) : For the 	<ul style="list-style-type: none"> Environmental Health Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Noise and Vibration incidents Non-Compliance with Project Standards Number noise-related community grievances regarding noise 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							time period 19:00-23:00 • (Night): For the time period 23:00-07:00			
15	Construction	Socio-economic Environment	<ul style="list-style-type: none"> Stability Risks Infrastructure Damage 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Incident records Receipts of compensation payments 	<ul style="list-style-type: none"> Monthly during construction stage 	<ul style="list-style-type: none"> Penal Code World Bank General EHS Guide WBG Water and Sanitation EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Emergency Assembly Points Infrastructure damage and disruption of the services 	<ul style="list-style-type: none"> Within Contract Price
16	Construction Stage	Cultural Heritage	<ul style="list-style-type: none"> Artifacts/ Areas of Historical or Cultural Value 	<ul style="list-style-type: none"> Excavation Areas 	<ul style="list-style-type: none"> On-site inspection Chance Find Procedure 	<ul style="list-style-type: none"> In case of a chance find comparison of 	<ul style="list-style-type: none"> Law on the Conservation of Cultural and 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of Chance Find Procedure records and reports 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
						archaeological and cultural structures.	<ul style="list-style-type: none"> Natural Property Chance Find Procedure World Bank General EHS Guide 			
17	Pre-Construction and Construction Stage	Grievance Mechanism	<ul style="list-style-type: none"> Internal and External Grievances 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Number and content of grievances received. Number of open and closed grievances. Average grievance response and closure time Determination of grievance channels 	<ul style="list-style-type: none"> In case of any grievance 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Grievance Records Number of Grievances Percentage of grievances closed within the targeted time 	<ul style="list-style-type: none"> Within Contract Price
18	Pre-Construction and	Emergencies	<ul style="list-style-type: none"> Determined emergency 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan 	<ul style="list-style-type: none"> Throughout the Project 	<ul style="list-style-type: none"> Information Training on Emergenc 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision 	<ul style="list-style-type: none"> Number of Emergency Assembly Points 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
	Construction Stage		<ul style="list-style-type: none"> assembly points Emergency Response Team Trainings given to the Emergency Response Team 		<ul style="list-style-type: none"> Assignment documents of Emergency Response Team members Training records of Emergency response team members 		<ul style="list-style-type: none"> First Aid and Emergency Preparedness precautions 	<ul style="list-style-type: none"> Consultant Contractor 	<ul style="list-style-type: none"> Number of personnel in the emergency response team Number of trainings given to the Emergency Response Team Percentage of participation to the trainings given to Emergency Response Team 	
19	Pre-Construction and Construction Stage	Stakeholder Engagement and Disclosure of Information	<ul style="list-style-type: none"> Stakeholder Engagement Activities 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Ongoing visual inspection Control of community information system (signs, verbal) 	<ul style="list-style-type: none"> Monthly during construction phase 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of stakeholder engagement activities Number of grievances received 	<ul style="list-style-type: none"> Within Contract Price

Ref	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
		n			notifications, etc.) is in place before work begins <ul style="list-style-type: none"> • Notification of the grievance mechanism • Grievance Records including responsive activity, timing and corrective actions • Stakeholder engagement records • Public disclosure of SEP and ESMP 				Number of corrective actions	

7.3.4. ASAT4-W2 Rehabilitation of Manavgat Ilca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Manavgat Çolaklı/Evrenseki District -Monitoring Plan for Operation Stage

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Operation	Occupational health and safety risks or impacts	<ul style="list-style-type: none"> • Incident/accident reports • OHS practices in the site (use of PPE etc.) • Legal Requirements 	Work areas (areas excavate for maintenance and repair)	<ul style="list-style-type: none"> • Accident records • Existence of an adequate OHS organization structure 	During Maintenance and Repair Work	<ul style="list-style-type: none"> • Occupational Health and Safety Regulation • Regulation on Health and Safety Conditions in the Use of Work Equipment 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • Percentage of closing Non-Conformance Reports • Reporting of near-miss accidents • Risk Assessment compliance percentage • Legal Requirement compliance percentage 	Own Resources of ASAT
2	Operation	Impact of water resources on human health	<ul style="list-style-type: none"> • Water quality 	Drinking Water Storage Tanks	<ul style="list-style-type: none"> • Sampling and on-site/laboratory measurements 	Continuously	<ul style="list-style-type: none"> • Water Pollution Control Regulation 	<ul style="list-style-type: none"> • ASAT 	<ul style="list-style-type: none"> • Water quality analysis 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
3	Operation	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Amount of contaminated soil 	Work areas (excavation areas for maintenance and repair)	<ul style="list-style-type: none"> Sampling and on-site/laboratory measurements 	In Case of any Failure	<ul style="list-style-type: none"> Regulation on Soil Pollution Control and Point Source Contaminated Sites 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Amount of contaminated soil Environmental spill/leakage incident records/reports 	Own Resources of ASAT
4	Operation	Community health and safety risks	<ul style="list-style-type: none"> Community safety measures 	Work areas (for maintenance and repair)	<ul style="list-style-type: none"> Accident Records Grievance Records 	In case of grievance	<ul style="list-style-type: none"> World Bank General EHS Guidelines 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Minimum number of community health, safety and security grievances from local public Minimum number of community health and safety incidents reported 	Own Resources of ASAT
5	Operation	Noise	<ul style="list-style-type: none"> Noise 	In the water storage tank	<ul style="list-style-type: none"> By measurements with decibel meter during heavy construction works at the 	Annually, in case of grievance	<ul style="list-style-type: none"> Not to exceed the limit values defined in 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Grievance Records 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					nearest sensitive receptors • Measurements to be performed by an authorized environmental laboratory in case of grievance		the Regulation on Environmental Noise Control			
6	Operation	Water Level	• Water Level	In the water storage tank	• By water level device • By SCADA system • By Manometer	Continuously	• Water Pollution Control Regulation • Regulation on Water Intended for Human Consumption • Pressure measurement will be made from the Pressure	• ASAT	• SCADA System Indicators	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Control Point located at Point of intersection B23.			
7	Operation	Water Quality	<ul style="list-style-type: none"> Residual chlorine 	In the water network	<ul style="list-style-type: none"> By land measurements at the dead ends of the water network 	Daily, in case of any grievance	<ul style="list-style-type: none"> Water Pollution Control Regulation Regulation on Water Intended for Human Consumption 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Water quality analysis 	Own Resources of ASAT
8	Operation	Emergencies	<ul style="list-style-type: none"> Number of determined assembly points Number of personnel assigned to 	Work areas (excavation areas for maintenance and repair)	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Assignment documents of Emergency Response Team 	Continuously	<ul style="list-style-type: none"> Information Training on First Aid and Emergenc 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Incident/Accident Records 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
			the emergency response team <ul style="list-style-type: none"> Number of trainings given to the emergency team 		members		y Preparedness measures			
9	Operation	Stakeholder Engagement	<ul style="list-style-type: none"> Grievance Mechanism 	Work sites (for maintenance and repair)	<ul style="list-style-type: none"> Grievance Records 	In case of any Grievance Record	<ul style="list-style-type: none"> WBG Conservation Policies 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Stakeholder information before maintenance and repair works and number of grievance records 	Own Resources of ASAT

7.3.5. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts- Monitoring Plan for Pre-Construction and Construction Stage

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Pre-construction and Construction	Labor, working conditions, risks or impacts related to worker rights.	<ul style="list-style-type: none"> Working conditions Accommodation Camp Site conditions 	<ul style="list-style-type: none"> Management Office 	<ul style="list-style-type: none"> Worker Grievances 	<ul style="list-style-type: none"> Weekly during construction stage 	<ul style="list-style-type: none"> World Bank General EHS Guide Occupational Health and Safety Regulation IFC and EBRD Accommodation Guide. 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of worker grievances not closed out within the target time frame 	<ul style="list-style-type: none"> Within contract price
2	Pre-construction and Construction	Occupational Health and Safety	<ul style="list-style-type: none"> Illness Incident/accident reports Grievances Training and training materials 	<ul style="list-style-type: none"> At the construction site and in the construction site building 	<ul style="list-style-type: none"> On-site inspections Interviews with workers Grievance records Training and toolbox training records Contract samples 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide Occupational Health and Safety Regulation Regulation on Health and Safety 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> % of closing of reported non-compliances Reporting of near-miss accidents. % of Toolbox 	<ul style="list-style-type: none"> Within contract price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
			(presentations, participant lists etc.) <ul style="list-style-type: none"> OHS practices in the site (use of PPE etc.) Legal Requirements Drill reports 		<ul style="list-style-type: none"> Internal and external audit Accident and near-miss records. Existence of an adequate OHS organizational structure 		Conditions for using work equipment		<ul style="list-style-type: none"> attending % of Risk Assessment compliance % of Legal Requirements compliance Result of scheduled audits % of attendance at scheduled trainings 	
3	Construction Stage	Risk of gender-based violence (GBV), Sexual exploitation and abuse/sexual harassment (SEA/SH) on workers	<ul style="list-style-type: none"> Grievance Forms 	<ul style="list-style-type: none"> Monitoring will be conducted in the construction site and in the areas affected by the Construction Site 	<ul style="list-style-type: none"> Grievance Mechanism 	<ul style="list-style-type: none"> Monthly 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> % of attendance at Code of Conduct trainings 	<ul style="list-style-type: none"> Within contract price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
		Gender inequality,								
4	Construction Stage	Community Health and Safety	<ul style="list-style-type: none"> Restriction of Social Life 	<ul style="list-style-type: none"> Monitoring will be conducted in the areas affected by the Construction Site 	<ul style="list-style-type: none"> To provide training to the workers on environmental and social issues, specifying the issues to be considered during work and keeping relations with citizens under control, To check the safety and information signs placed so that the safety and daily lives of citizens are not affected, Monitoring the access of citizens to the areas used 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> IFC Guide Regulation on Traffic Signs WBG General EHS Rules 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of community health, safety and security grievances from local communities recorded in the grievance management system. Number of reported community health and safety incidents. % of attendance at consultation meeting 	<ul style="list-style-type: none"> Within contract price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works.</p> <ul style="list-style-type: none"> • Monitoring the permits and approved sketches regarding road closures and road directions, • Monitoring the safety measures for road closures and road directions, and the traffic signs • To check the necessary procedures 					

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					regarding traffic on site, for safety purposes					
5	Construction Stage	Traffic	<ul style="list-style-type: none"> Traffic Safety 	<ul style="list-style-type: none"> On streets, avenues and connected roads where construction work is carried out 	<ul style="list-style-type: none"> By checking that pedestrian crossings and pedestrian areas in the construction area are safe and adequate, 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> Highway Traffic Law WBG General EHS Regulations Regulations on Traffic Signs 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of permits related to road closures and road directions. Number of reported traffic-related grievances 	<ul style="list-style-type: none"> Within Contract Price
6	Construction Stage	Soil Environment	<ul style="list-style-type: none"> Accidents/Spills 	<ul style="list-style-type: none"> Sub-project area 	<ul style="list-style-type: none"> Sampling and analysis Spot checks Grievance records Environmental incident reports 	<ul style="list-style-type: none"> Continuously throughout the project construction stage. 	<ul style="list-style-type: none"> Regulation on Control of Soil Pollution and Point Source Contaminated Lands Regulation on Waste 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Volume of soil pollution 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Management • Soil Conservation and Land Use Law and related Regulations			
7	Construction Stage	Air Quality	• Dust	• Within the scope of the Project, in areas where the construction equipment is working heavily	• By watering against dust formation during excavation work, by controlling the backfill material storage areas, and emissions of construction equipment.	• Throughout the project construction stage. • On case of grievance	• IFC, EHS Guide • Relevant Regulation of Ministry of Environment, Urbanization and Climate Change • Air Quality Assessment and Management	• ASAT • ALDAŞ Supervision Consultant • Contractor	• Air quality incidents	• Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							ent Regulation			
8	Pre-construction and Construction Stage	Wastewater Pollution	<ul style="list-style-type: none"> Wastewater 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> In areas where there is sewerage connection to the existing network, wastewater bills of construction site (septic discharge receipts in case there is no sewerage connection) 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Urban Wastewater Treatment Regulation IFC, EHS Guide World Bank General EHS Guides 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Wastewater Collection System 	<ul style="list-style-type: none"> Within Contract Price
9	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Hazardous Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Monitoring temporary storage areas in case of hazardous waste generation. 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Regulation on Health and Safety Measures in 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste disposal (hazardous waste) 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Working with Asbestos			
10	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Domestic Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> By checking occupancy of the containers and by observations in the construction site to ensure that there is no random waste around. To place separate containers for recyclable waste and to keep quarterly reports. 	<ul style="list-style-type: none"> Daily throughout the project construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste Regulation 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste Disposal (Domestic Waste) 	<ul style="list-style-type: none"> Within Contract Price
11	Pre-construction and Construction Stage	Waste	<ul style="list-style-type: none"> Packaging Waste 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Collection of packaging waste in separate containers By keeping records of packaging waste delivered to 	<ul style="list-style-type: none"> Daily during construction stage 	<ul style="list-style-type: none"> Waste Management Regulation Zero Waste 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Waste Generation Waste disposal (Packaging Waste) 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					Collection and Separation Companies.		Regulation • Packaging Waste Control Regulation			
12	Pre-construction and Construction Stage	Waste	• Waste Oil	• In construction sites where work machines operate	• By monitoring oil leakages and oil changes in the construction site. • By monitoring maintenance and repair of construction equipment.	• Daily during construction stage	• Waste Management Regulation • Regulation on Management of Waste Oils	• ASAT • ALDAŞ Supervision Consultant • Contractor	• Waste Generation • Waste disposal (Hazardous Waste)	• Within Contract Price
13	Pre-construction and Construction Stage	Waste	• Excavation Waste	• Monitoring of excavation work areas and work trucks carrying excavation waste	• Monitoring of excavation work areas in the construction site by Field Engineers. • Monitoring the access of citizens to the	• Daily during construction stage	• Waste Management Regulation • Zero Waste Regulation	• ASAT • ALDAŞ Supervision Consultant • Contractor	• Disposal of Excavation Waste	• Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> areas used individually or collectively such as residences, workplaces, hospitals, shopping malls, if any, during trench digging, excavation, etc. works. Monitoring of excavation work areas and work trucks carrying excavation waste by Field Engineers. 		<ul style="list-style-type: none"> Regulation on Control of Excavation and Demolition Wastes 			
14	Construction Stage	Environmental Noise Level	<ul style="list-style-type: none"> Noise 	<ul style="list-style-type: none"> Within the scope of the Project, in areas where the construction equipment work is heavy 	<ul style="list-style-type: none"> By measuring noise levels with portable devices at the nearest sensitive receptors, especially in areas where construction 	<ul style="list-style-type: none"> If any grievances are received regarding noise monthly during the 	Environmental Noise Control Regulation (Environmental Noise Limits : LAeq,5min.day: 65 dB(A)	<ul style="list-style-type: none"> Environmental Health Directorate ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Noise and Vibration incidents Non-Compliance Records with Project Standards Number of 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<p>equipment work is heavy.</p> <ul style="list-style-type: none"> Measurements to be performed by an authorized environmental laboratory in case of grievance 	project construction stage.	<ul style="list-style-type: none"> L_{Aeq},5min.ev ening: 60 dB(A) L_{Aeq},5min.night: 55 dB(A) → (Daytime): For the time period 07:00-19:00 → (Laksham): For the time period 19:00-23:00 → (L_{night}): For the time period 23:00-07:00 		community grievances regarding noise	
15	Construction	Socio-economic Environment	<ul style="list-style-type: none"> Stability Risks Infrastructure Damage 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Incident records Receipts of compensation payments 	Monthly during construction stage	<ul style="list-style-type: none"> Penal Code World Bank General EHS Guide WBG Water and 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Emergency Assembly Points Infrastructure damage and disruption of the services 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Sanitation EHS Guide			
16	Construction Stage	Cultural Heritage	<ul style="list-style-type: none"> Artifacts/ Areas of Historical or Cultural Value 	<ul style="list-style-type: none"> Excavation Areas 	<ul style="list-style-type: none"> On-site inspection Chance Find Procedure 	<ul style="list-style-type: none"> In case of a chance find comparison of archaeological and cultural structures. 	<ul style="list-style-type: none"> Law on the Conservation of Cultural and Natural Property Chance Find Procedure World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of Chance Find Procedure records and reports 	<ul style="list-style-type: none"> Within Contract Price
17	Pre-Construction and Construction Stage	Grievance Mechanism	<ul style="list-style-type: none"> Internal and External Grievances 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Number and content of grievances received. Number of open and closed grievances. Average grievance 	<ul style="list-style-type: none"> In case of any grievance 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Grievance Records, Number of Grievances Percentage of grievances closed within the 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> response and closure time Determination of grievance channels 				targeted time	
18	Pre-Construction and Construction Stage	Emergencies	<ul style="list-style-type: none"> Determined emergency assembly points Emergency response team Trainings given to the emergency response team 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Assignment documents of Emergency Response Team members Training records of Emergency response team members 	<ul style="list-style-type: none"> Throughout the Project 	<ul style="list-style-type: none"> Information Training on Emergency First Aid and Emergency Preparedness precautions 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of Emergency Assembly Points Number of personnel in the emergency response team Number of trainings given to the Emergency Response Team Percentage of participation to the trainings given to Emergency 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
									Response Team	
19	Pre-Construction and Construction Stage	Stakeholder Engagement and Disclosure of Information	<ul style="list-style-type: none"> Stakeholder Engagement Activities 	<ul style="list-style-type: none"> Throughout the construction site building and work area 	<ul style="list-style-type: none"> Ongoing visual inspection Control of community information system (signs, verbal notifications, etc.) is in place before work begins Notification of the grievance mechanism Grievance Records including responsive activity, timing and corrective actions Stakeholder engagement records 	<ul style="list-style-type: none"> Monthly during construction phase 	<ul style="list-style-type: none"> World Bank General EHS Guide 	<ul style="list-style-type: none"> ASAT ALDAŞ Supervision Consultant Contractor 	<ul style="list-style-type: none"> Number of stakeholder engagement activities Number of grievances received Number of corrective actions 	<ul style="list-style-type: none"> Within Contract Price

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
					<ul style="list-style-type: none"> Public disclosure of SEP and ESMP 					

7.3.6. ASAT4-W3 Construction of Drinking Water Network and Water Storage Tank in Districts Affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts)- Monitoring Plan for Operation Stage

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
1	Operation	Occupational health and safety risks or impacts	<ul style="list-style-type: none"> Incident/accident reports OHS practices in the site (use of PPE etc.) Legal Requirements 	Work areas (areas excavate for maintenance and repair)	<ul style="list-style-type: none"> Accident records Existence of an adequate OHS organization structure 	During Maintenance and Repair Work	<ul style="list-style-type: none"> Occupational Health and Safety Regulation Regulation on Health and Safety Conditions in the Use of 	ASAT	<ul style="list-style-type: none"> Percentage of closing Non-Conformance Reports Reporting of near-miss accidents Risk Assessment compliance percentage Legal Requirement 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							Work Equipment		compliance percentage	
2	Operation	Impacts of Water Resources on human health	<ul style="list-style-type: none"> Water quality 	Drinking Water Storage Tanks	<ul style="list-style-type: none"> Sampling and on-site/laboratory measurements 	Continuously	<ul style="list-style-type: none"> Water Pollution Control Regulation 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Water quality analysis 	Own Resources of ASAT
3	Operation	Impacts on Soil (Contamination, Erosion)	<ul style="list-style-type: none"> Amount of contaminated soil 	Work areas (areas for maintenance and repair)	<ul style="list-style-type: none"> Sampling and on-site/laboratory measurements 	In Case of any Failure	<ul style="list-style-type: none"> Regulation on Soil Pollution Control and Point Source Contaminated Sites 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Amount of contaminated soil Environmental spill/leakage incident records/reports 	Own Resources of ASAT
4	Operation	Community health and safety risks	<ul style="list-style-type: none"> Community safety measures 	Work areas (for maintenance and repair)	<ul style="list-style-type: none"> Accident Records Grievance Records 	In case of grievance	<ul style="list-style-type: none"> World Bank General EHS Guidelines 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Minimum number of community health, safety and security grievances from local public Minimum number of 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
									community health and safety incidents reported	
5	Operation	Noise	<ul style="list-style-type: none"> Noise 	In the water storage tank	<ul style="list-style-type: none"> By measurements with decibel meter during heavy construction works at the nearest sensitive receptors Measurements to be performed by an authorized environmental laboratory in case of grievance 	Annually, in case of grievance	<ul style="list-style-type: none"> Not to exceed the limit values defined in the Regulation on Environmental Noise Control 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Grievance Records 	Own Resources of ASAT
6	Operation	Water Level	<ul style="list-style-type: none"> Water Level 	In the water storage tank	<ul style="list-style-type: none"> By water level device By SCADA system By Manometer 	Continuously	<ul style="list-style-type: none"> Water Pollution Control Regulation Regulation on Water Intended 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Maintenance/Repair Records 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
							for Human Consumption <ul style="list-style-type: none"> • Point of Intersection S781; (KM:0+680) • Denizkent Network Inlet S499; (KM:5+481) • Denizyaka Network Inlet: S598 ;(KM 5+804) • Perakende Network Inlet: S458;(KM:1+288) 			

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
7	Operation	Water Quality	<ul style="list-style-type: none"> (residual chlorine) 	In the water network	<ul style="list-style-type: none"> By land measurements at the dead ends of the water network 	Daily, in case of any grievance	<ul style="list-style-type: none"> Water Pollution Control Regulation Regulation on Water Intended for Human Consumption 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Water quality analysis 	Own Resources of ASAT
8	Operation	Emergencies	<ul style="list-style-type: none"> Number of determined assembly points Number of personnel assigned to the emergency response team Number of trainings given to the emergency team Number of personnel 	Work areas (excavation areas for maintenance and repair)	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Assignment documents of Emergency Response Team members 	Continuously	<ul style="list-style-type: none"> Information Training on First Aid and Emergency Preparedness measures 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Incident/Accident Records 	Own Resources of ASAT

Ref.	Sub-Project Phase	Subject	Monitoring Parameter	Monitoring Location	Monitoring Method	Monitoring Frequency	Reference / Threshold (If appropriate)	Institutional Responsibility	Key Performance Indicators	Cost (If not included in sub-project budget)
			attending emergency trainings							
9	Operation	Stakeholder Engagement	<ul style="list-style-type: none"> Grievance Mechanism 	Work sites (for maintenance and repair)	<ul style="list-style-type: none"> Grievance Records 	In case of any Grievance Record	<ul style="list-style-type: none"> WBG Conservation Policies 	<ul style="list-style-type: none"> ASAT 	<ul style="list-style-type: none"> Stakeholder information before maintenance repair works and number of grievance records 	Own Resources of ASAT

8. CAPACITY DEVELOPMENT AND TRAINING

8.1. Organizational Capacity

ASAT has established the PIU by ensuring that there is qualified staff assigned and serving on the duty throughout the sub-financing agreement life cycle.

The roles and E&S related responsibilities of the Sub-borrower and other key parties are described in **Table 11**.

Table 11: Roles and Responsibilities of Relevant Institutions

Institutional Responsibilities in ESMP Implementation		
Relevant Institution	Relation To the Project	Roles and Responsibilities
ILBANK	Financial Intermediary-Project Management Unit (PMU)	<p>Within the scope of the project, ILBANK will ensure supervision and monitoring of the entire period to ensure that the TEFWER ESMF, ILBANK’s ESMS and WB ESF are properly implemented.</p> <p>ILBANK will review the monthly/quarterly environmental and social monitoring reports prepared by the Contractor, reviewed by the Supervision Consultant and submitted to ILBANK during the construction stage. ILBANK will inform the World Bank by preparing and submitting semi-annually monitoring reports regarding the ESHS performance of the project.</p>
General Directorate of ASAT	Sub-borrower-Administration	<p>The General Directorate of ASAT will review the ESMP prepared by the Consultant and approve it to be submitted to ILBANK.</p> <p>During the execution of the project, a project team will be established by the Operating Department of ASAT General Directorate. The project team will work in coordination with the Supervision Consultant Company ALDAŞ regarding environmental, social, and occupational health and safety issues and the progress of the project.</p>
ALDAŞ Infrastructure Management and Consultancy Inc.	Contractor Site Supervision Consultant	<p>Within the scope of the project, ALDAŞ will serve as project management unit and will be responsible for both technical and administrative progress of the contract packages on behalf of the Administration.</p> <p>ALDAŞ is responsible to comply with the roles and responsibilities specified in the TEFWER ESMF and</p>

		<p>this site-specific ESMP and SEP. ALDAŞ will review the monthly/quarterly Environmental and Social Monitoring reports prepared by the Contractor and after approval, will submit these reports to the ILBANK quarterly.</p> <p>During the construction period, 1 Environmental Expert, 1 Social Expert and 1 Full Time OHS Expert will be assigned by ALDAŞ.</p>
Contractor Company	Contractor	<p>Within the scope of the Environmental and Social Management Plan, the construction works, and the operation stage will be carried out by the Contractor. The Contractor is obliged to comply with the roles and responsibilities specified in the TEFWER ESMF and this site-specific ESMP. Issues related to the implementation of the ESMP will be examined by the Contractor during the preparation of the bidding offer and the offers will be given according to the Environmental and Social Management Plan prepared by the Administration. The Contractor is obliged to prepare C-ESMP and other relevant plans (such as Labor Management Plan), in accordance with the TEFWER ESMF, TEFWER LMP, ILBANK ESMS and implement them. Also, the contractor will report on their implementation to Site Supervisor.</p> <p>The Environmental and Social Management Plan includes monitoring tables describing the possible negative impacts that may arise from the activities to be carried out during the construction and operation stage of the project, the measures to be taken to minimize these impacts, and the implementation conditions of the measures. These tables also include the institutions and organizations (project stakeholders) responsible for the mentioned items.</p> <p>During the construction period, 1 Environmental Expert, 1 Social Expert and 1 Full Time OHS Expert will be provided by the Contractor.</p> <p>During the construction stage, the contractor will provide trainings to the personnel who will take part in the project, including measures within the scope of ESMP, to ensure environmental, occupational and worker health and safety, citizen safety and social awareness.</p>

		Environmental, Social and Occupational Health and Safety Specialists will coordinate the implementation of the measures determined for the construction stage in the ESMP. These specialists are responsible for taking the necessary precautions and monitoring to eliminate/minimize environmental and social impacts in accordance with the ESMP. The Contractor will prepare monthly/quarterly environmental and social monitoring reports and submit to the Consultant.
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Table 12: Management of Reporting and Monitoring System

Responsible Party	Reporting Process Requirements
Construction Contractor	<ul style="list-style-type: none"> The construction contractor will develop monthly and quarterly ESMRs and submit to ASAT through the Supervision Consultant.
ASAT PIU	<ul style="list-style-type: none"> The PIU will examine the monthly and quarterly ESMR of the contractor/s and the Supervision Consultants and will be responsible for the timely delivery of the Monthly (if requested by ILBANK) and Quarterly ESMRs to ILBANK.
ALDAŞ (Supervision Consultant)	<ul style="list-style-type: none"> The Supervision Consultant will review the monthly and quarterly ESMRs of the contractor/s and will include its own assessments and observations on ESHS aspects and prepare quarterly ESMRs and submit them to ILBANK on behalf of ASAT. The Supervision Consultant (ALDAŞ) has the responsibility to prepare non-conformity forms in the event of any non-conformity observed during the site inspections and within the reports.
ILBANK's PMU	<ul style="list-style-type: none"> The PMU will review the monthly/quarterly reports delivered by ALDAŞ during the construction phase. ILBANK will inform the WB by providing regular semi-annual monitoring reports on the ESHS performance of the sub-project.
WB	<ul style="list-style-type: none"> The WB will review regular semi-annual monitoring reports on the ESHS performance of the sub-project and instruct ILBANK if any non-conformity or non-compliance identified.

8.2. Training

One of the main requirements of the ESMP study is training of management and workers of the project owner and contractor. Immediately after the construction commencement process, the necessary training will be provided to the personnel, and these trainings will be renewed and organized at various levels throughout the project period. The training will include worker rights, contractual requirements, code of conduct, grievance mechanism and communication channels and OHS issues. Compliance with the rules of conduct, including prevention of gender-based violence, sexual harassment, sexual exploitation/abuse that are included in the training to be provided, will be included in the work contract of the personnel.

Aldaş Supervision Consultant is responsible for monitoring the Contractor's activities regarding training. For each new employment by the Contractor, the Contractor will provide training to

new personnel. In all cases deemed necessary by the Contractor or ALDAŞ Supervision Consultant, training will be repeated for the personnel.

Short-term training is required for the Environmental Manager, Supervision Consultant Personnel and Contractor Personnel to increase their environmental awareness. Training may be carried out by some external experts or with the assistance of the Supervision Consultant experts or consultants and ILBANK and the World Bank. Within the scope of the project, long-term trainings will be provided regarding both the World Bank OHS policies and the Second Chapter of the "Regulation on the Procedures and Principles of Occupational Health and Safety Training of Employees" Official Gazette dated 15.05.2013 and numbered 28648, Obligations of the Employer, Obligations Regarding Occupational Health and Safety Training of Employees, article 5, article 6, article 10, article with reference to 11, specific environmental and social issues (hazardous/non-hazardous waste management, traffic management, infectious diseases and grievance mechanism, etc.) will be examined by the Contractor. If the solutions submitted by the Contractor to the Supervision Consultant do not meet the expectations regarding the requirements of certain environmental and social, occupational health and safety issues, the Contractor will be informed by the Supervision Consultant about new solutions and the developed/revised solutions will be implemented by the Contractor.

In this context, the main trainings planned to be given in accordance with the relevant regulation are as follows;

TRAINING ISSUES

1. General Issues

- Information regarding labor legislation,
- Legal rights and responsibilities of workers,
- Workplace hygiene and order,
- Legal consequences arising from work accidents and occupational diseases,
- Implementation of environmental and social instruments,

2. Health Issues

- Causes of occupational diseases,
- Disease prevention principles and application of prevention techniques,
- Biological and psychosocial risk factors,
- First-aid,
- Harms of smoking and passive smoking,

3. Technical Issues

- Working at height,
- Chemical, physical, and ergonomic risk factors,
- Manual lifting and carrying,
- Explosion, fire, and fire protection,
- Safe use of work equipment,
- Working with vehicles with monitor,

- Dangers of electricity, risks, and precautions
- Causes of work accidents and application of prevention principles and techniques,
- Health and Safety signboards,
- Use of personal protective equipment,
- General rules of occupational health and safety and safety culture,
- Evacuation and rescue,

4. Other Issues

- Working at height specific to the contractor's workers, jobs
- Working in a closed environment,
- Working in environments with radiation risk,
- Working with welding,
- Working with equipment having special risks,
- Possible health risks caused by carcinogenic substances, etc.)
- Training regarding Waste Management
- Employment OHS Training
- Workers Representatives Training
- Training of OHS Members
- Emergency Teams Training
- First-aid, Emergency Preparedness and Covid-19 Precautions
- OHS Requirements for Working in Noisy Environments
- OHS Requirements for Working in Dusty Environments
- Camp Site Management Plan
- OHS Requirements for Working with Chemicals
- OHS Requirements for Excavation Works
- Chance Finds Procedure
- Assignment regarding Code of Conduct, GBV & SEA/SH, Grievance Mechanism, EHS regulations
- Traffic Management
- Work instructions training
- Orientation Training
- On-the-Job Training / Talks (Toolbox): Toolbox training should be provided during the execution of the work to support basic training and inform workers. Toolbox training subjects should cover the dangers and risks that may arise during the execution of the work, such as the hand tools and work machinery that are used. Training must be given daily or weekly. Registration documents will be submitted to the Project Control organization by the Contractor when requested. Training must be given daily or weekly.

After the training, measurement and evaluation of the training will be performed. Training materials will be kept updated and dynamic by covering the issues experienced and learned. If repetition of training is necessary based on this measurement and evaluation, the training will be repeated. Documents regarding the measurement and evaluation of the training will be added to the training records. Training participation documents and records, as well as training

Environmental and Social Management Plan

certificates, will be delivered to the Supervision Consultant and to the OHS personnel when necessary. In addition, Article 8 and Article 12 of the “Occupational Health and Safety Risk Assessment Regulation” indicate near miss incident records. Therefore, keeping records of near misses is also a legal obligation. Near-miss forms will be recorded regularly, workers will be trained to prevent recurrence of the accident. The trainings given will be recorded.

9. IMPLEMENTATION SCHEDULE AND COST ESTIMATES

Table 13: ESMP Implementation Schedule and Cost Estimates

Item	Responsibility	Estimated Cost (EURO)	Implementation Stage
Grievance Mechan/ism	General Directorate of ASAT Contractor	24.000 €/year	Construction Stage
ESMP Implementation Team Environmental Specialist Social Specialist OHS Specialists	Contractor	270.000 €/year	Construction Stage
Occupational Health and Safety	General Directorate of ASAT Contractor	33.000 €/year	Construction Stage
Public Exposure to Health Problems	General Directorate of ASAT Contractor	16.364 €/year	Construction Stage
Information meeting, information brochures, all kinds of information	General Directorate of ASAT Contractor	1.500 €/year	Construction Stage
Training and Capacity Development	Contractor	2.500 €/year	Construction Stage

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- 2023. ASAT, Revised-2 Environmental and Social Management Plan-1 for Antalya Sustainable Water and Wastewater Management Project, Wastewater Network Project for Döşemealtı, Aksu, Kundu and Kepez Regions and Kuzey Antalya Drinking Water Supply Project
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- Manavgat Chamber of Commerce and Industry (MATSO), 2023 Economic Report, <https://matso.tr/ekonomik-raporlar/>
- Regulation on ASAT Drinking Water Subscription Line and Water Domestic Connection Application Enforced on 28/04/2020 with the General Assembly Decision Dated 20/11/2019 and Numbered 30
- Republic of Türkiye Ministry of Health Antalya Provincial Health Directorate - Health Centres, <https://www.antalyasm.gov.tr/aile-sagligi-merkezleri/tum-aile-sagligi-merkezleri>
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**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



**ANTALYA DRINKING
WATER REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



**ANNEX-1.1
ENVIRONMENTAL AND SOCIAL
IMPACT AND RISK SCREENING
FORMS ASAT4-W1 /
CONSTRUCTION OF
MANAVGAT ULUKAPI FORCE
MAIN AND DRINKING WATER
STORAGE TANK**

ALDAŞ

Environmental and Social Impact and Risk Screening Forms

Environmental Screening Form

Sub-Project Information

Sub-project name	ASAT4-W1 / Construction of Manavgat Ulukapı Force Main and Drinking Water Storage Tank
Procurement Plan Item No	Loan No: P176608
Type of sub-project	Construction of Drinking Water Network
Implementing authority(ies)	ASAT, ALDAŞ, CONTRACTOR
Location of sub-project (Neighborhood(s), District, Province)	Manavgat / Ulukapı District (See Annex-1)
Brief Description of Sub-project activities: (construction and operation/implementation activities)	9.5 km water supply line and 10.000 m ³ water storage tank will be constructed in the Manavgat-Ulukapı District within the scope of the project.
Geographical coordinates of the Site:	Latitude: 36,82901 / Longitude: 31,48483
Area of land that will be used for the sub-project:	22.000 m ²
Current Land use	Ownership of Public Roads and Administration
Land ownership	Ownership of Public Roads and Administration
Access routes to the Site	North of Manavgat D400 Highway and Urban Transportation Roads

Baseline Environmental Conditions

Is the sub-project site located on or adjacent to any of the following? (provide information on all sites and project components/sub-components, sequencing of relevant activities, related activities; give details, indicate distance in km)

No.	Environmental Aspects	Yes	No	Details
1.	Sensitive ecosystems		✓	<p>This is a linear environmental infrastructure Project (9.5 km water supply line + 10.000 m³ water storage tank) to be conducted at Manavgat-Ulukapı District passing through the existing public roads as provided in its PID and this Screening Form.</p> <p>Presence of sensitive ecosystems on or adjacent to the project area have not been observed through the information provided in its PID and any related risk is not anticipated.</p> <p>Subproject-specific ESMP is required to identify the closest sensitive ecosystems, address potential risks (if any) and related mitigations in line with ESS6.</p>
2.	Natural habitats		✓	<p>This is a linear environmental infrastructure Project (9.5 km water supply line + 10.000 m³ water storage tank) to be conducted at Manavgat-Ulukapı District passing through the existing public roads as provided in its PID. There are no natural habitats on or adjacent to the project site.</p>

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Environmental and Social Impact and Risk Screening Forms-ASAT4-W1

3.	Areas with protection status (cultural /archaeological /natural)		✓	Presence of areas of protection status on or adjacent to the project area have not been observed through the information provided in its PID. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8.
4.	Critical habitats		✓	There are no critical habitats on or adjacent to the project area. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS6.
5.	Describe the soil and vegetation on site		✓	The project passes along the existing urban and cadastral roads, there are natural lands around the project area. The use of the land is urban roads and is owned by municipality.

Sensitive Receptors

Are there sensitive receptors in the area of influence of the sub-project, such as:

No.	Sensitive Receptors	Yes	No	Details
1.	Housing units, schools, hospitals or other sensitive receptors	✓		<p>Sensitive Receivers are available in the ASAT4-W1 project area. (Schools, Hotels, Greenhouse Areas, Residences)</p> <p>This is a linear environmental infrastructure Project to be conducted at Manavgat-Ulukapı District passing through the existing public roads as provided in its PID and this Screening Form. So, there will be housing units and possibility of schools, hospitals or other sensitive receptors which may be located at the sides of the roads where the sub Project will be implemented.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
2.	Culturally and/or socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, etc.		✓	<p>According to the site visits and desktop reviews, there are not any Culturally and/or Socially Important Roads, Areas/Religious Settlements, Cemeteries, Tourist or Pilgrim Gathering Areas, etc. within the ASAT4-W1 project area.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS4 and ESS8.</p>
3.	Water sources (groundwater wells, springs, surface water resources)	✓		<p>Construction area of ASAT4-W1 project passes through Manavgat Stream. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
4.	Areas prone to flooding / landslides		✓	<p>There is not landslide risk in the ASAT4-W1 Project region, but there may be a flood risk in areas close to the water resources.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
5.	Downstream communities	N/A	N/A	<p>This is not related with the Project.</p> <p>Any risks related with the downstream communities are not anticipated at this stage.</p> <p>Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.</p>
6.	Areas Affected by Landslides		✓	<p>Based on the historical data research, no landslides have been recorded in the Subproject site. Geotechnical analysis has been conducted and the relevant information provided in the PID, please refer to “5.2.4 Geotechnical Study” section.</p>
7.	Other sensitive receptors		✓	<p>Presence of sensitive receptors on or adjacent to the project site have not been observed through the information provided in its PID and any related risk cannot be assessed at this stage.</p>

				Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS1, ESS3, ESS4, ESS6, ESS8, ESS10.
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Current Environmental Status

No.	Sensitive Receptors	Yes	No	Details
1.	Is the site in critical / over exploited condition?		✓	This is a linear environmental infrastructure Project (9.5 km water supply line + 10.000 m ³ water storage tank) to be conducted at Manavgat-Ulukapı District passing through the existing public roads as provided in its PID. No critical / over exploited condition is observed.
2.	Is the site covered with vegetation?			The project passes through the existing urban and cadastral roads, soil is already disturbed and there is no significant vegetation on the project area.
3.	Is the site disaster-prone? If yes; list all disaster zone categories applicable.	✓		Due to its geological, tectonic, topographic, and meteorological characteristics, Antalya is among the regions with natural disaster risk in terms of floods, fires, overflows, and earthquakes. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1.
4.	Is the site suitable for proposed development?	✓		New water lines will be constructed in the areas where the existing networks are already located.
5.	Describe existing pollution or degradation in the site(s)	N/A	N/A	New water lines will be constructed in the areas where the existing networks are already located. There are no existing pollution or degradation issues observed on the site at this stage. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS3.
6.	Any other remarks on baseline condition?		✓	There are no other remarks on baseline condition at this stage.
7.	Is there a possibility for Asbestos Containing Materials at the site(s)?		✓	Presence of asbestos-containing material is not anticipated in ASAT4-W1 project area. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.

Anticipated Environmental Impacts: Impacts on Land, Geology and Soil

Will the proposed sub-project cause the following impacts on the land/soil?

No.	Impacts	Yes	No	Details
1.	substantial removal of top soil (indicate in sqm)	✓		(22.000+54.000+27.000)

				In total, 103.000 m ² of soil will be excavated, and 22.000 m ² will be excavated within the scope of ASAT4-W1 project. Excavated soil will be backfilled.
2.	degradation of land		✓	Since the soil removed after excavation will be restored by backfilling, degradation is not anticipated.
3.	loss or impacts on cultural/heritage properties		✓	Loss or impacts on cultural/heritage properties are not anticipated on the Project site. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed in case of encountering any cultural/heritage properties.
4.	physical changes in the project area (i.e. changes to the topography) due to cutting and filling, excavation, earthwork or any other activity		✓	The excavated areas will be restored. Environmental arrangements will be carried out in the storage areas. For this reason, there will not occur any change in the topography of the project area.
5.	contamination or pollution of the Land? (indicate possible risks)		✓	Subproject may involve or lead to pollution/release of pollutants to air, water, land/ soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS3.

Impacts on Water Environment

Will the sub-project or its components cause any of the following impacts on the quantity or quality of water sources?

No.	Impacts	Yes	No	Details
1.	Will the sub-project involve dredging in the river environment?		✓	ASAT4-W1 project will not include dredging.
2.	Impacts on availability and access to water resources		✓	There is not any impact on water resources located near the project area.
3.	Pollution of water bodies/ground water nearby or downstream		✓	Pollution of water bodies/ground water on or adjacent to the Project site is not anticipated. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from rain/stormwater or wastewater generation due to dust suppression activities will be managed properly. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
4.	Impacts on river flow patterns		✓	There will not be any impact on river flow patterns.
5.	Will the project result in stagnation of water flow or pondage?		✓	ASAT4-W1 project will not result in stagnation of water flow or pondage.

Impacts on Biodiversity

Will the sub-project or its components cause any of the following impacts on biodiversity?

No.	Environmental Impacts	Yes	No	Details
1.	cutting of trees or clearing of vegetation?	✓		It is envisaged that a small number of trees in the construction storage area will be re-located. There will be no significant clearing of vegetation within the project site boundaries and it will be avoided unless it is necessary.
2.	habitat fragmentation due to the clearing activities? (i.e. hindrance to the local biodiversity like disturbing the migratory path of fish, birds, mammals, etc.)		✓	No such risks are anticipated for the subproject.
3.	potential nuisance of noise and light pollution or any disturbance on surrounding habitats		✓	During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.

Impacts on the Communities

Will the sub-project or its components cause any of the following impacts on the nearby communities?

No.	Environmental Impacts	Yes	No	Details
1.	Health & Safety risks in nearby communities (major accident risks such as explosions, fires, toxic releases, etc.)		✓	No major health and safety risks due to the project activities are anticipated for nearby communities. Although there is no risk of explosion in the project site, appropriate and sufficient fire-fighting equipment will always be available in the construction sites. Emergency will be managed through an Emergency Preparedness and Response Plan. Potential risks and mitigation measures regarding health and safety will be assessed and identified within the scope of the subproject specific ESMP.
2.	Potential noise/vibration to nearby communities	✓		During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. The noise level at 100 meters distance will not exceed 70 dBA. The construction work area environment will be adapted accordingly, and necessary measurements will be carried out. Potential risks and mitigation measures regarding noise/vibration related impacts and risks of the Project will be assessed and identified within the scope of the subproject specific ESMP.
3.	Potential damages to common property, roads, etc.	✓		Backfilling and asphalt coating works will be carried out in the project site, and damaged roads will be repaired. Inadvertent

				<p>damage to surrounding land, assets and structures will be repaired/compensated by contractor.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
4.	Potential risks of traffic accidents	✓		<p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4 including Traffic Management Plan to be applied during the subproject implementation. The citizens will be informed about the construction works and construction schedule before the works begin, and precautions will be taken against possible accident risks by preparing a Traffic Management Plan.</p>

Impacts due to Storage and Wastes: Pollution and Hazards

Will the sub-project or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities?

No.	Type	Yes	No	Details
1.	Does the project include use or storage of dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?	✓		<p>Regarding the information provided in PID, the project does not include use or storage of dangerous substances.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
2.	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	✓		<p>Solid waste and excavation waste will be produced during the construction activities.</p> <p>Municipal waste production by construction workforce is foreseen.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>

Environmental Pollution

Will the process cause or increase the following?

No.	Type	Yes	No	Details
1.	Air pollution	✓		<p>During the works to be carried out at the construction phase of the project, the construction site and nearby areas will be affected by air pollution caused by construction machinery and by excavation works. (Exhaust gas, dust)</p> <p>Access to the construction site will be blocked, modern equipment and vehicles will be selected that can meet the relevant emission standards in construction activities, etc.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
2.	Odor nuisance		✓	<p>Release of odor is not anticipated during the construction activities.</p>

3.	Environmental noise	✓		<p>During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles.</p> <p>Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
4.	Visual blight or light pollution		✓	<p>There will be no visual blight or light pollution because of the nature of the project.</p>
5.	Water pollution (surface waters, groundwater)		✓	<p>For the construction phase domestic wastewater will be produced by construction workforce which will be discharged to the existing sewerage system operated by Antalya ASAT. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from rain/stormwater or wastewater generation due to dust suppression activities will be managed properly.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
6.	Soil contamination	✓		<p>There is a risk of soil contamination caused by spills and scattering that may occur during the construction phase of the project.</p> <p>Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
7.	Other types of impacts on the ambient environment	✓		<p>It is not foreseen any other types of impacts on the ambient environment.</p>
8.	Expose to the hazardous materials (such as asbestos)		✓	<p>Exposure to any hazardous substances in the project site is not anticipated. In case of encountering asbestos containing material during the construction activities, it will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.</p>

Suggested Environmental Enhancement Measures

Has the sub-project design considered the following enhancement measures?

No.	Improve Measures	Yes	No	Details
1.	Energy conservation measures / energy recovery options incorporated in sub-project design	✓		With the planned ASAT4-W1 project, it is aimed to save energy by minimizing the water losses (non-revenue water). During the construction periodic maintenance of the equipment and machinery will be conducted.
2.	Waste minimization or waste reuse/recycle options	✓		Waste generation will be observed during the construction phase due to the nature of the activities. The wastes to be generated will be managed in accordance with the waste management regulation and related sub-management plan (which will be prepared by its contractor). Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
3.	Rainwater harvesting, water recycling and other water resource enhancement measures	✓		The subproject scope involves water supply system which will enhance safely access to water and reduce water losses (non-revenue water). No rainwater harvesting, water recycling and other water resource enhancement measures are anticipated.
4.	Mitigations against extreme events, drought, flood, other natural disasters	✓		The extreme events are assessed at the design stage of the subproject and explained in its PID.
5.	License for water withdrawal from surface water source	N/A	N/A	Within the scope of the project, water will not be drawn from surface water sources.
6.	Dredging permits	N/A	N/A	Dredging will not be performed within the scope of the project.
7.	License for transportation and storage of diesel, oil and lubricants, etc.	✓		Diesel, oil and lubricants will not be stored within the scope of the project. In case it is required to transport diesel for refuelling of construction equipment, such services will be obtained from licensed companies.
8.	License for transportation of hazardous wastes	✓		Hazardous waste will be transported by licensed waste transportation companies in accordance with the regulations.

SUMMARY OF ENVIRONMENTAL SCREENING

Project Categorization and Need for ESF Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High	
Key Reasons	<p>The main environmental risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none">• Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks.• Subproject may involve or lead to pollution/release of pollutants to air, water, land/soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as “Moderate”.</p>	
Safeguards Instruments Required	<input type="checkbox"/> ESIA and ESMP <input checked="" type="checkbox"/> ESMP <input checked="" type="checkbox"/> SEP <input type="checkbox"/> RP <input type="checkbox"/> Ex-Post Social Audit Report	
Status		Name, Signature with Date
Prepared by		
Checked and categorized as (low, moderate, substantial, high) by		
Reviewed and approved by		

Social Screening Form

Land Acquisition and Livelihoods

Land Acquisition	Yes	No	Details
Does the sub-project require private land acquisition?		✓	All of the works planned to be carried out within the scope of the project will pass through the zoning or cadastral roads. Additional land acquisition or expropriation will not be required of any private parcels.
Was the land required for sub-project already acquired?	✓		The ownership of the roads in the zoning plan belongs to the municipality. All the lines to be manufactured are on zoning roads. The allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the "Final Permission Commitment Document" regarding the allocation of the land with File No. 29-3772 to the General Directorate of ASAT for 49 years is given in Annex-3 "Ownership Documents" of ESMP Document.
Has the acquired lands been duly transferred and are there any litigation/legacy (pending for title transfer, compensation payment, ownership disputes etc) issues?	✓		The acquired lands have been duly transferred. There are no litigation/inheritance issues. The allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the "Final Permission Commitment Document" regarding the allocation of the land with File No. 29-3772 to the General Directorate of ASAT for 49 years is given in Annex-3 "Ownership Documents" of ESMP Document.
Are there any complaints/unresolved cases of already acquired lands?		✓	There are no complaints or unresolved cases of already acquired lands.
Is it possible to purchase privately owned through a Willing Buyer–Willing Seller agreement?		N/A	There is no manufacturing that comes under private ownership.
Does the sub-project cause any access restriction to the commuters/pedestrians/ business and trades?	✓		There may be temporary access restrictions for springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Open excavation of more than 200 m will not be allowed. In addition, temporary roads will be established for the citizens and local tradesmen in order to provide access to residences and workplaces, and the citizens will be informed about the temporary roads by sketch before the construction works start.

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			Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.
Is land for material mobilization or transport for the civil work available within the existing plot/Right of Way?	✓		Yes, the land is available within the right of way. Enough material will be transported to the relevant work areas when the work started. Thus, the amount of material that needs to be stored in the work area will be low.
Are there any formal / informal users or non-titled people who are utilizing (inhabiting/doing business or using for other purposes etc.) the proposed site/project locations that will be used for civil works? If yes, please provide how many and for what purposes.		N/A	This is a linear environmental infrastructure Project (9.5 km water supply line + 10.000 m ³ water storage tank) to be conducted in Manavgat-Ulukapı District passing through the existing public roads as provided in its PID and this Screening Form. There will not be any other private lands apart from the public roads to be utilized, and there are not any informal users.
Is any temporary impact likely on livelihoods of persons living on the land to be acquired?		✓	No lands to be acquired.
Is there any possibility to move out, close of business/commercial/livelihood activities of persons during construction?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no possibility to move out or close of business. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Is there any case of temporary or permanent physical displacement of persons due to sub-project works?		✓	There will not be any temporary or permanent physical displacement within the scope of the Sub-project.
Does this project involve resettlement (physical displacement) of any persons? If yes, give details.		✓	There will not be any resettlement of any persons within the scope of the Sub-project.
Will there be loss of/damage to productive trees, fruit plants or crops that generate livelihood income for the households?		✓	There will be no loss of productive trees, fruit plants or crops that generate livelihood income for the households.
Will there be loss of incomes and livelihoods for anyone due to project intervention?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no loss of incomes and livelihoods. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Will people permanently or temporarily lose access to facilities, services, or natural resources?		✓	Temporary access routes will be provided for affected people during the work. Therefore,

			<p>there will be no permanently or temporarily loss of access to facilities, services, or natural resources.</p> <p>Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.</p>
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Labor

Labor Issues	Yes	No	Details
Will project cause loss of employments/jobs?		✓	<p>The ASAT4-W1 project will not cause job loss and will also lead to new employment for the local public.</p> <p>No loss of employments/jobs are anticipated due to the works within the scope of the Sub-project. The number of personnel to work on site during the construction phase is approximately 60 people.</p>
Will project generate excessive labor influx as a result of new constructions?		✓	<p>Within the scope of the project, there will not occur excessive labor force influx as a result of construction works.</p> <p>The number of personnel to work on site during the construction phase is approximately 60 people.</p>
Does construction activities require additional/skilled labor from outside the locality?	✓		<p>Construction works may require additional/skilled labor from outside the region. The number of personnel to work on site during the construction phase is approximately 60 people.</p>
Will sub-project/construction activities cause destruction/disturbance to host community living?	✓		<p>The construction activities might cause disturbance to host community living such as dust, noise, and traffic. But these affects will be local and temporary.</p> <p>Site specific ESMP is required to identify and as required address potential risks and mitigations.</p>
Will construction of new buildings, drainage lines, powerlines create any degradation/disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc.?		✓	<p>The water supply networks will be constructed on the already existing public roads within the scope of the Sub-project. Any disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc. will be mitigated in accordance with the site specific ESMP which are required to be prepared.</p>
Will this intervention generate downsize in current labor force (retrenchments) of the agency?		✓	<p>No generation of downsizing of current labor force (retrenchments) of the agency is anticipated.</p>
Are there are GBV/SEA/SH risks for workers?	✓		<p>Yes, there are always such risks for workers, regardless of project activities. The contractor will ensure that all workers are provided with training on project requirements (individually or collectively). These trainings will also include</p>

			raising awareness about avoidance of sexual exploitation, abuse and sexual harassment, gender-based violence and the code of conduct that all workers must comply with. Any complaint about these issues will be handled strictly confidential.
Is there a grievance mechanism for the workers? Is it functioning?	✓		They can state their complaints via “Alo 185”. In addition, a complaint mechanism is also working through CIMER. In addition, an internal grievance mechanism will be established within the scope of the project. With this mechanism, the rights of the workers and their expectations, opinions, suggestions, and grievances will be recorded and responded to. In this way, the evaluation, approval, investigation, implementation of the improvement activities and closure of the grievances will be carried out in a short time.

Vulnerable Groups

Vulnerability Issues	Yes	No	Details
Are there any vulnerable groups who may be affected adversely due to the sub-project?	✓		Disabled and elderly citizens who may use temporary roads during construction, chronic patients who may be affected by dust during excavation works. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.

SUMMARY OF SOCIAL SCREENING

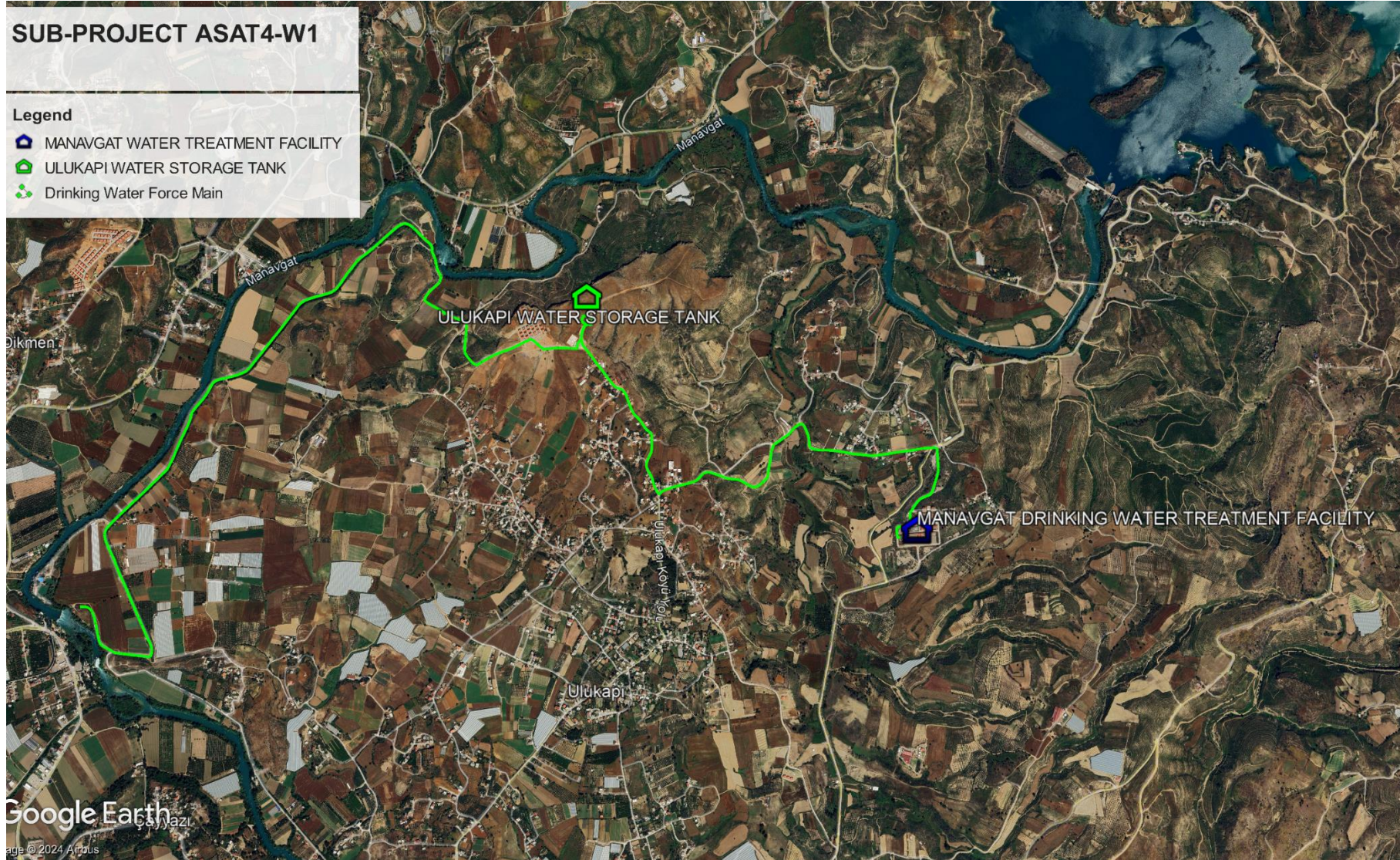
Project Categorization and Need for Safeguards Instruments, Oversight

Project Category	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial	<input type="checkbox"/> High
Key Reasons	<p>The main social risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none"> Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks. Subproject may lead to temporary access restriction to springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4. Subproject will lead to increased risk of traffic related accidents and road safety issues on the provincial roads/motorways and village roads during the construction phase. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Subproject activities might cause disturbance to host community living such as dust, noise, and traffic. But these affects will be local and temporary. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations. Subproject may involve risk of managing stakeholder expectations, reactions, grievances, feedback, etc. A SEP, including grievance mechanism for public, is required to be prepared in line with ESS10. SEP must cover any vulnerable/ disadvantaged groups etc. if any. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as "Moderate".</p>			
Safeguards Instruments Required	<p><input type="checkbox"/> ESIA and ESMP</p> <p><input checked="" type="checkbox"/> ESMP</p> <p><input checked="" type="checkbox"/> SEP</p> <p><input type="checkbox"/> RP</p> <p><input type="checkbox"/> Ex-Post Social Audit Report</p>			
Status	Agency / Official	Name, Signature with Date		

Türkiye Earthquake, Floods and Wildfires Emergency Reconstruction Project (TEFWER)
Environmental and Social Impact and Risk Screening Forms-ASAT4-W1

Prepared by		
Checked and Categorized as (low, moderate, substantial, high) by		
Reviewed and accepted by		

ANNEX-1 ASAT4-W1 Manavgat Ulukapi Force Main and Drinking Water Storage Tank



**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



**ANTALYA DRINKING
WATER REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



ANNEX-1.2

**ENVIRONMENTAL AND SOCIAL
IMPACT AND RISK SCREENING
FORMS**



**ASAT4-W2 / REHABILITATION OF
MANAVGAT ILICA DRINKING
WATER TRANSMISSION AND
NETWORK LINES AND
CONSTRUCTION OF DRINKING
WATER STORAGE TANK IN
ÇOLAKLI-EVRENSEKI DISTRICT**

ALDAŞ

Environmental and Social Impact and Risk Screening Forms

Environmental Screening Form

Sub-Project Information

Sub-project name	ASAT4-W2 / Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines and Construction of Drinking Water Storage Tank in Çolaklı-Evrenseki District
Procurement Plan Item No	Loan No: P176608
Type of sub-project	Construction of Drinking Water Network
Implementing authority(ies)	ASAT, ALDAŞ, CONTRACTOR
Location of sub-project (Neighborhood(s), District, Province)	Manavgat / Ilıca, Evrenseki Districts (See Annex 1)
Brief Description of Sub-project activities: (construction and operation/implementation activities)	33 km water supply line (in Manavgat Ilıca district) and 10.000 m ³ water storage tank (in Çolaklı-Evrenseki district) will be constructed within the scope of the project.
Geographical coordinates of the Site:	Latitude: 36.80530 / Longitude: 31.36346
Area of land that will be used for the sub-project:	54.000 m ²
Current Land use	Ownership of Public Roads and Administration
Land ownership	Ownership of Public Roads and Administration
Access routes to the Site	North and South of Manavgat D400 Highway and Urban Transportation Roads

Baseline Environmental Conditions

Is the sub-project site located on or adjacent to any of the following? (provide information on all sites and project components/sub-components, sequencing of relevant activities, related activities; give details, indicate distance in km)

No.	Environmental Aspects	Yes	No	Details
1.	Sensitive ecosystems		✓	<p>This is a linear environmental infrastructure Project (33 km water supply line + 10.000 m³ water storage tank) to be conducted at Manavgat-Ilıca and Çolaklı-Evrenseki Districts passing through the existing public roads as provided in its PID and this Screening Form.</p> <p>Presence of sensitive ecosystems on or adjacent to the project area have not been observed through the information provided in its PID and any related risk is not anticipated.</p> <p>Subproject-specific ESMP is required to identify the closest sensitive ecosystems, address potential risks (if any) and related mitigations in line with ESS6.</p>
2.	Natural habitats		✓	<p>There are no natural habitats on or adjacent to the project area.</p>

3.	Areas with protection status (cultural /archaeological /natural)		✓	Presence of areas of protection status on or adjacent to the project area have not been observed through the information provided in its PID. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8.
4.	Critical habitats		✓	There are no critical habitats on or adjacent to the project area. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS6.
5.	Describe the soil and vegetation on site		✓	The project passes along the existing urban and cadastral roads, there are natural lands around the project area.

Sensitive Receptors

Are there sensitive receptors in the area of influence of the sub-project, such as:

No.	Sensitive Receptors	Yes	No	Details
1.	Housing units, schools, hospitals or other sensitive receptors	✓		<p>Sensitive Receivers are available in the ASAT4-W2 project area. (Schools, Hotels, Greenhouse Areas, Residences)</p> <p>This is a linear environmental infrastructure Project to be conducted at Manavgat - Ilica District passing through the existing public roads as provided in its PID and this Screening Form. So, there will be housing units and possibility of schools, hospitals or other sensitive receptors which may be located at the sides of the roads where the sub Project will be implemented.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
2.	Culturally and/or socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, etc.		✓	<p>No. According to the site visits and desktop reviews, ASAT4-W2 project is in the Hotels region, and it is planning to be constructed in an area where tourism is intense.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS4 and ESS8.</p>
3.	Water sources (groundwater wells, springs, surface water resources)	✓		<p>The construction area of ASAT4-W2 project is close to the seashore and it is not close to any other water resource.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
4.	Areas prone to flooding / landslides		✓	<p>There is not landslide risk in the ASAT4-W2 project region.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
5.	Downstream communities	N/A	N/A	<p>This is not related with the Project.</p> <p>Any risks related with the downstream communities are not anticipated at this stage.</p> <p>Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.</p>
6.	Areas affected by landslides		✓	<p>Based on the historical data research, no landslides have been recorded in the Subproject site. Geotechnical analysis has been conducted and the relevant information provided in the PID, please refer to “5.3.4 Geotechnical Study” section.</p>
7.	Other sensitive receptors		✓	<p>Presence of sensitive receptors on or adjacent to the project site have not been observed through the information provided in its PID and any related risk cannot be assessed at this stage.</p> <p>Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS1, ESS3, ESS4, ESS6, ESS8, ESS10.</p>

Current Environmental Status

No.	Sensitive Receptors	Yes	No	Details
1.	Is the site in critical / over exploited condition?		✓	This is a linear environmental infrastructure Project (30 km water supply line + 5.000 m ³ water storage tank) to be conducted at Manavgat District passing through the existing public roads as provided in its PID. No critical / over exploited condition is observed.
2.	Is the site covered with vegetation?	✓		The project passes through the existing urban and cadastral roads, soil is already disturbed and there is no significant vegetation on the project area.
3.	Is the site disaster-prone? If yes; list all disaster zone categories applicable.	✓		Due to its geological, tectonic, topographic, and meteorological characteristics, Antalya is among the regions with natural disaster risk in terms of floods, fires, overflows, and earthquakes. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1.
4.	Is the site suitable for proposed development?	✓		New water lines will be constructed in the areas where the existing networks are already located.
5.	Describe existing pollution or degradation in the site(s)	N/A	N/A	New water lines will be constructed in the areas where the existing networks are already located. There are no existing pollution or degradation issues observed on the site at this stage. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS3.
6.	Any other remarks on baseline condition?		✓	There are no any other remarks on baseline condition at this stage.
7.	Is there a possibility for Asbestos Containing Materials at the site(s)?		✓	Presence of asbestos-containing material is not anticipated in ASAT4-W2 project area. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.

Anticipated Environmental Impacts: Impacts on Land, Geology and Soil

Will the proposed sub-project cause the following impacts on the land/soil?

No.	Impacts	Yes	No	Details
1.	substantial removal of top soil (indicate in sqm)	✓		(22.000+54.000+27.000) In total, 103.000 m ² of soil will be excavated, and 54.000 m ² will be excavated within the scope of ASAT4-W2 project. Excavated soil will be backfilled.
2.	degradation of land		✓	Since the soil removed after excavation will be restored by backfilling, degradation is not anticipated.
3.	loss or impacts on cultural/heritage properties		✓	Loss or impacts on cultural/heritage properties are not anticipated on the Project site. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed in case of encountering any cultural/heritage properties.
4.	physical changes in the project area (i.e. changes to the topography) due to cutting and filling, excavation, earthwork or any other activity		✓	The excavated areas will be restored. Environmental arrangements will be carried out in the storage areas. For this reason, there will not occur any change in the topography of the project area.
5.	contamination or pollution of the Land? (indicate possible risks)		✓	Subproject may involve or lead to pollution/release of pollutants to air, water, land/ soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS3.

Impacts on Water Environment

Will the sub-project or its components cause any of the following impacts on the quantity or quality of water resources?

No.	Impacts	Yes	No	Details
1.	Will the sub-project involve dredging in the river environment?		✓	ASAT4-W2 project will not include dredging.
2.	Impacts on availability and access to water resources		✓	There is not any impact on water resources located near the project area.
3.	Pollution of water bodies/ground water nearby or downstream		✓	Pollution of water bodies/ground water on or adjacent to the Project site is not anticipated. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from rain/stormwater or wastewater generation due to dust suppression activities will be managed properly.

				Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
4.	Impacts on river flow patterns		✓	ASAT4-W2 project does not have any impacts on river flow patterns.
5.	Will the project result in stagnation of water flow or pondage?		✓	ASAT4-W2 project will not cause stagnation or ponding of water flow.

Impacts on Biodiversity

Will the sub-project or its components cause any of the following impacts on biodiversity?

No.	Environmental Impacts	Yes	No	Details
1.	cutting of trees or clearing of vegetation?	✓		It is envisaged that a small number of trees in the construction storage area will be re-located. There will be no significant clearing of vegetation within the project site boundaries and it will be avoided unless it is necessary.
2.	habitat fragmentation due to the clearing activities? (i.e. hindrance to the local biodiversity like disturbing the migratory path of fish, birds, mammals, etc.)		✓	No such risks are anticipated for the subproject.
3.	potential nuisance of noise and light pollution or any disturbance on surrounding habitats		✓	During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.

Impacts on the Communities

Will the sub-project or its components cause any of the following impacts on the nearby communities?

No.	Environmental Impacts	Yes	No	Details
1.	Health & Safety risks in nearby communities (major accident risks such as explosions, fires, toxic releases, etc.)		✓	No major health and safety risks due to the project activities are anticipated for nearby communities. Although there is no risk of explosion in the project site, appropriate and sufficient fire-fighting equipment will always be available in the construction sites. Emergency will be managed through an Emergency Preparedness and Response Plan. Potential risks and mitigation measures regarding health and safety will be assessed and identified within the scope of the subproject specific ESMP.
2.	Potential noise/vibration to nearby communities	✓		During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. The noise level at 100 meters distance will not exceed 70 dBA. The construction work area

				<p>environment will be adapted accordingly, and necessary measurements will be carried out.</p> <p>Potential risks and mitigation measures regarding health and safety will be assessed and identified within the scope of the subproject specific ESMP.</p>
3.	Potential damages to common property, roads, etc.	✓		<p>Backfilling and asphalt coating works will be carried out in the project site, and damaged roads will be repaired.</p> <p>Inadvertent damage to surrounding land, assets and structures will be repaired/compensated by contractor.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
4.	Potential risks of traffic accidents	✓		<p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4 including Traffic Management Plan to be applied during the subproject implementation. The citizens will be informed about the construction works and construction schedule before the works begin, and precautions will be taken against possible accident risks by preparing a Traffic Management Plan.</p>

Impacts due to Storage and Wastes: Pollution and Hazards

Will the sub-project or its components cause any impact due to storage of materials, wastes or pollution due to releases during various project activities?

No.	Type	Yes	No	Details
1.	Does the project include use or storage of dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		✓	Regarding the information provided in PID, the project does not include use or storage of dangerous substances. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
2.	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	✓		Solid waste and excavation waste will be produced during the construction activities. Municipal waste production by construction workforce is foreseen. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.

Environmental Pollution

Will the process cause or increase the following?

No.	Type	Yes	No	Details
1.	Air pollution	✓		During the works to be carried out at the construction phase of the project, the construction site and nearby areas will be affected by air pollution caused by construction machinery and by excavation works. (Exhaust gas, dust) Access to the construction site will be blocked, modern equipment and vehicles will be selected that can meet the relevant emission standards in construction activities, etc. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
2.	Odor nuisance		✓	Release of odor is not anticipated during the construction activities.
3.	Environmental noise	✓		During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
4.	Visual blight or light pollution		✓	There will be no visual blight or light pollution because of the nature of the project.
5.	Water pollution (surface waters, groundwater)		✓	For the construction phase domestic wastewater will be produced by construction workforce which will be discharged to the existing sewerage system operated by Antalya ASAT. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from

				rain/stormwater or wastewater generation due to dust suppression activities will be managed properly. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
6.	Soil contamination	✓		There is a risk of soil contamination caused by spills and scattering that may occur during the construction phase of the project. Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
7.	Other types of impacts on the ambient environment		✓	It is not foreseen any other types of impacts on the ambient environment.
8.	Expose to the hazardous materials (such as asbestos)		✓	Exposure to any hazardous substances in the project site is not anticipated. In case of encountering asbestos containing material during the construction activities, it will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.

Suggested Environmental Enhancement Measures

Has the sub-project design considered the following enhancement measures?

No.	Enhancement Measures	Yes	No	Details
1.	Energy conservation measures / energy recovery options incorporated in sub-project design	✓		With the planned ASAT4-W2 project, it is aimed to save energy by minimizing the water losses. During the construction periodic maintenance of the equipment and machinery will be conducted.
2.	Waste minimization or waste reuse/recycle options	✓		Waste generation will be observed during the construction phase due to the nature of the activities. The wastes to be generated will be managed in accordance with the waste management regulation and related sub-management plan (which will be prepared by its contractor). Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
3.	Rainwater harvesting, water recycling and other water resource enhancement measures	✓		The subproject scope involves water supply system which will enhance safely access to water and reduce water losses (non-revenue water). No rainwater harvesting, water recycling and other water resource enhancement measures are anticipated.
4.	Mitigations against extreme events, drought, flood, other natural disasters	✓		The extreme events are assessed at the design stage of the subproject and explained in its PID.
5.	License for water withdrawal from surface water source	N/A	N/A	Within the scope of the project, water will not be drawn from surface water sources.

6.	Dredging permits	N/A	N/A	Dredging will not be performed within the scope of the project.
7.	License for transportation and storage of diesel, oil and lubricants, etc.	✓		Diesel, oil and lubricants will not be stored within the scope of the project. In case it is required to transport diesel for refuelling of construction equipment, such services will be obtained from licensed companies.
8.	License for transportation of hazardous wastes	✓		Hazardous waste will be transported by licensed waste transportation companies in accordance with the regulations.

SUMMARY OF ENVIRONMENTAL SCREENING

Project Categorization and Need for ESF Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	<p>The main environmental risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none">• Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks.• Subproject may involve or lead to pollution/release of pollutants to air, water, land/soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as “Moderate”.</p>

Safeguards Instruments Required	<input type="checkbox"/> ESIA and ESMP
	<input checked="" type="checkbox"/> ESMP
	<input checked="" type="checkbox"/> SEP
	<input type="checkbox"/> RP
	<input type="checkbox"/> Ex-Post Social Audit Report

Status		Name, Signature with Date
Prepared by		
Checked and categorized as (low, moderate, substantial, high) by		
Reviewed and approved by		

Social Screening Form

Land Acquisition and Livelihoods

Land Acquisition	Yes	No	Details
Does the sub-project require private land acquisition?		✓	All of the works planned to be carried out within the scope of the project will pass through the zoning or cadastral roads. Additional land acquisition or expropriation will not be required of any private parcels.
Was the land required for sub-project already acquired?	✓		The ownership of the roads in the zoning plan belongs to the municipality. All the lines to be manufactured are on zoning roads. Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed on the land belonging to the Ministry of Justice, on Lot 2 of 804 block, where existing drinking water tanks of ASAT General Directorate are located. The allocation process for the land on which the Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed has been completed, and the letter dated 03.07.2024 and numbered E-66844966-400-9857868 regarding the pre-allocation of the land by the Ministry of Justice to the General Directorate of ASAT for a period of 2 (two) years is given in Annex-3 "Ownership Document" of ESMP Document. The process regarding the final allocation is carried out by General Directorate of ASAT

			and there is no obstacle to start the construction with the existing pre-allocation document of 2 years.
Has the acquired lands been duly transferred and are there any litigation/legacy (pending for title transfer, compensation payment, ownership disputes etc) issues?	✓		The acquired lands have been duly transferred. There are no litigation/inheritance issues. Çolaklı-Evrenseki Drinking Water Storage Tank will be constructed has been completed, and the letter dated 03.07.2024 and numbered E-66844966-400-9857868 regarding the pre-allocation of the land by the Ministry of Justice to the General Directorate of ASAT for a period of 2 (two) years is given in Annex-3 "Ownership Document" of ESMP Document. The process regarding the final allocation is carried out by General Directorate of ASAT and there is no obstacle to start the construction with the existing pre-allocation document of 2 years.
Are there any complaints/unresolved cases of already acquired lands?		✓	There are no complaints or unresolved cases of already acquired lands.
Is it possible to purchase privately owned through a Willing Buyer–Willing Seller agreement?		N/A	There is no manufacturing that comes under private ownership.
Does the sub-project cause any access restriction to the commuters/pedestrians/ business and trades?	✓		There may be temporary access restrictions for springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Open excavation of more than 200 m will not be allowed. In addition, temporary roads will be established for the citizens and local tradesmen in order to provide access to residences and workplaces, and the citizens will be informed about the temporary roads by sketch before the construction works start. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.
Is land for material mobilization or transport for the civil work available within the existing plot/Right of Way?	✓		Yes, the land is available within the right of way. Enough material will be transported to the relevant work areas when the work started. Thus, the amount of material that needs to be stored in the work area will be low.
Are there any formal / informal users or non-titled people who are utilizing (inhabiting/doing business or using for other purposes etc.) the proposed site/project locations that will be used for civil works? If yes, please provide how many and for what purposes.		N/A	This is a linear environmental infrastructure Project (33 km water supply line + 10.000 m ³ water storage tank) to be conducted at Manavgat-Ilıca and Çolaklı-Evrenseki Districts passing through the existing public roads as provided in its PID and this Screening Form.

			There will not be any other lands apart from the public roads to be utilized, and there are not any informal users.
Is any temporary impact likely on livelihoods of persons living on the land to be acquired?		✓	No lands to be acquired.
Is there any possibility to move out, close of business/commercial/livelihood activities of persons during construction?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no possibility to move out or close of business. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Is there any case of temporary or permanent physical displacement of persons due to sub-project works?		✓	There will not be any temporary or permanent physical displacement within the scope of the Sub-project.
Does this project involve resettlement (physical displacement) of any persons? If yes, give details.		✓	There will not be any resettlement of any persons within the scope of the Sub-project.
Will there be loss of/damage to productive trees, fruit plants or crops that generate livelihood income for the households?		✓	There will be no loss of productive trees, fruit plants or crops that generate livelihood income for the households.
Will there be loss of incomes and livelihoods for anyone due to project intervention?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no loss of incomes and livelihoods. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Will people permanently or temporarily lose access to facilities, services, or natural resources?		✓	Temporary access routes will be provided for affected people during the work. Therefore, there will be no permanently or temporarily loss of access to facilities, services, or natural resources. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.

Labor

Labor Issues	Yes	No	Details
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Will project cause loss of employments/jobs?		✓	The ASAT4-W2 project will not cause job loss and will also lead to new employment for the local public. No loss of employments/jobs are anticipated due to the works within the scope of the Sub-project. The number of personnel to work on site during the construction phase is approximately 60 people.
Will project generate excessive labor influx as a result of new constructions?		✓	Within the scope of the project, there will not occur excessive labor force influx as a result of construction works. The number of personnel to work on site during the construction phase is approximately 60 people.
Does construction activities require additional/skilled labor from outside the locality?	✓		Construction works may require additional/skilled labor from outside the region. The number of personnel to work on site during the construction phase is approximately 60 people.
Will sub-project/construction activities cause destruction/disturbance to host community living?	✓		The construction activities might cause disturbance to host community living such as dust, noise and traffic. But these affects will be local and temporary. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Will construction of new buildings, drainage lines, powerlines create any degradation/disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc.?		✓	The water supply networks will be constructed on the already existing public roads within the scope of the Sub-project. Any disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc. will be mitigated in accordance with the site specific ESMP which are required to be prepared.
Will this intervention generate downsize in current labor force (retrenchments) of the agency?		✓	No generation of downsizing of current labor force (retrenchments) of the agency is anticipated.
Are there are GBV/SEA/SH risks for workers?	✓		Yes, there are always such risks for workers, regardless of project activities. The contractor will ensure that all workers are provided with training on project requirements (individually or collectively). These trainings will also include raising awareness about avoidance of sexual exploitation, abuse and sexual harassment, gender-based violence and the code of conduct that all workers must comply with. Any complaint about these issues will be handled strictly confidential.
Is there a grievance mechanism for the workers? Is it functioning?	✓		They can state their complaints via "Alo 185". In addition, a complaint mechanism is also working through CIMER.

		<p>In addition, a project specific internal grievance mechanism will be established within the scope of the project. With this mechanism, the rights of the workers and their expectations, opinions, suggestions, and grievances will be recorded and responded to. In this way, the evaluation, approval, investigation, implementation of the improvement activities and closure of the grievances will be carried out in a short time.</p>
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Vulnerability Groups

Vulnerability Issues	Yes	No	Details
Are there any vulnerable groups who may be affected adversely due to the sub-project?	✓		Disabled and elderly citizens who may use temporary roads during construction, chronic patients who may be affected by dust during excavation works. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.

SUMMARY OF SOCIAL SCREENING

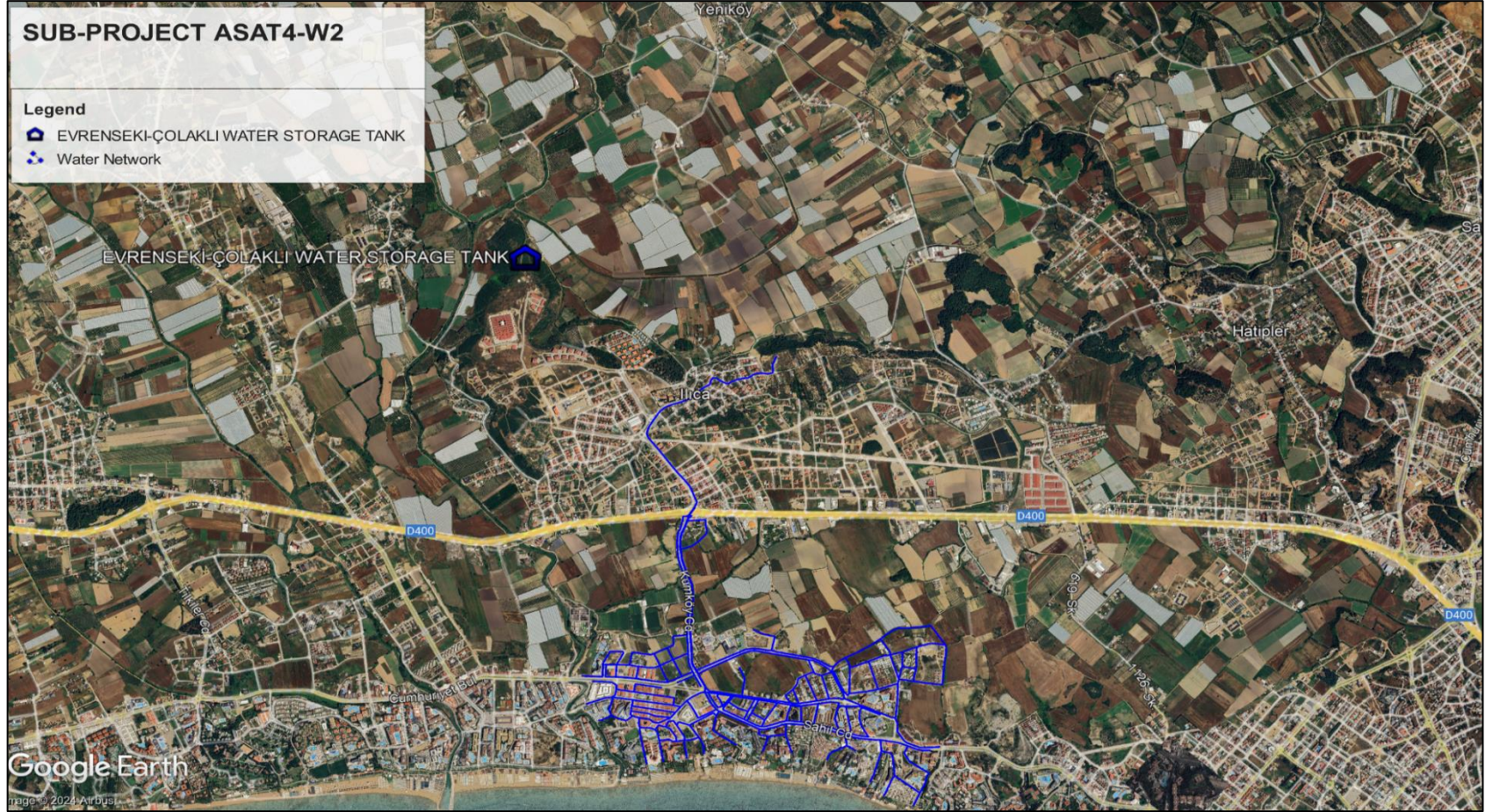
Project Categorization and Need for Safeguards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	<p>The main social risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none"> • Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks. • Subproject may lead to temporary access restriction to springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4. • Subproject will lead to increased risk of traffic related accidents and road safety issues on the provincial roads/motorways and village roads during the construction phase. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. • Subproject activities might cause disturbance to host community living such as dust, noise, and traffic. But these affects will be local and temporary. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations. • Subproject may involve risk of managing stakeholder expectations, reactions, grievances, feedback, etc. A SEP, including grievance mechanism for public, is required to be prepared in line with ESS10. SEP must cover any vulnerable/ disadvantaged groups etc. if any. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as “Moderate”.</p>

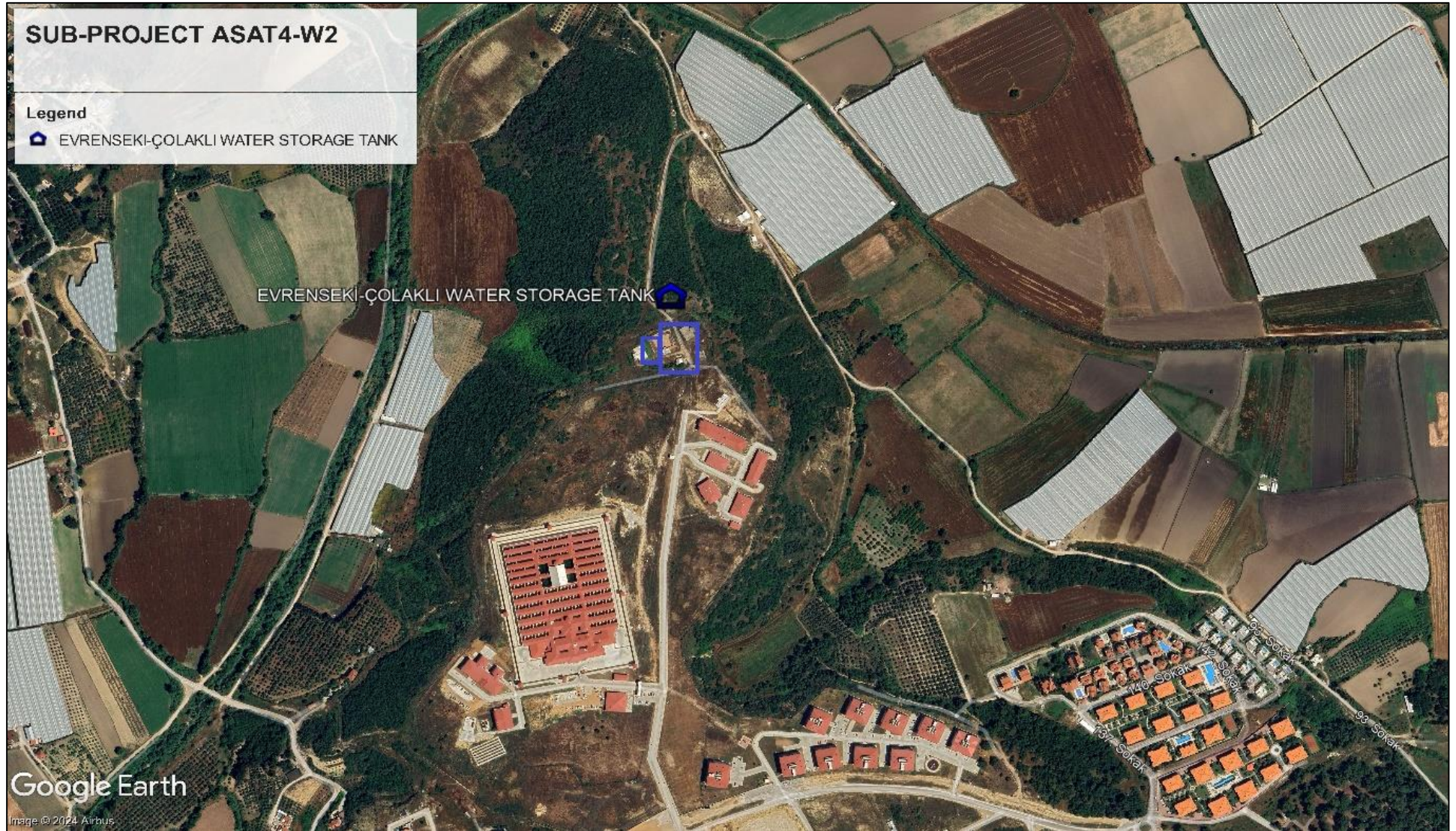
Safeguards Instruments Required		
<input type="checkbox"/> ESIA and ESMP		
<input checked="" type="checkbox"/> ESMP		
<input checked="" type="checkbox"/> SEP		
<input type="checkbox"/> RP		
<input type="checkbox"/> Ex-Post Social Audit Report		
Status	Agency / Official	Name, Signature with Date
Prepared by		
Checked and Categorized as (low, moderate, substantial, high) by		
Reviewed and accepted by		

ANNEX-1

ASAT4-W2 Rehabilitation of Manavgat Ilıca Drinking Water Transmission and Network Lines



ASAT4-W2 Drinking Water Storage Tank with 10.000 m³ Capacity in Manavgat Çolaklı Evrenseki District



**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



**ANTALYA DRINKING
WATER REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



ANNEX-1.3

**ENVIRONMENTAL AND SOCIAL
IMPACT AND RISK SCREENING
FORMS**



**ASAT4-W3 / CONSTRUCTION OF
DRINKING WATER NETWORK AND
WATER STORAGE TANK IN
DISTRICTS AFFECTED BY
WILDFIRE (MANAVGAT;
GÜNDOĞDU, HOCALAR, KISALAR
AND DEMIRCILER DISTRICTS)**

ALDAŞ

Environmental and Social Impact and Risk Screening Forms

Environmental Screening Form

Sub-Project Information

Sub-project name:	ASAT4-W3 / Construction of Drinking Water Network and Water Storage Tank in Districts affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar and Demirciler Districts)
Procurement Plan Item No:	Loan No: P176608
Type of sub-project:	Construction of Drinking Water Network
Implementing authority(ies):	ASAT, ALDAŞ, CONTRACTOR
Location of sub-project (Neighborhood(s), District, Province):	Manavgat / Gündoğdu, Denizyaka, Perakende, Denizkent, Büklüce, Demirciler Districts (See Annex 1)
Brief Description of Sub-Project Activities: (construction and operation/implementation activities)	30 km water supply line and 5.000 m ³ water storage tank will be constructed in the Manavgat District within the scope of the project.
Geographic Coordinates of the Project Site:	Latitude: 36.85313 / Longitude: 31.22533
Area of land that will be used for the sub-project:	27.000 m ²
Current Land Use:	Ownership of Public Roads and Administration
Land Ownership:	Ownership of Public Roads and Administration
Access routes to the Site:	South of Manavgat D400 Highway and Urban Transportation Roads

Baseline Environmental Conditions

Is the sub-project site located on or adjacent to any of the following (Provide information for all sites and alignment of the project components/sub-components, associated activities; give details, mention distance to these features in km)

No.	Environmental Aspects	Yes	No	Details
1.	Sensitive Ecosystems		✓	<p>This is a linear environmental infrastructure Project (30 km water supply line + 5.000 m³ water storage tank) to be conducted at Manavgat District passing through the existing public roads as provided in its PID and this Screening Form.</p> <p>Presence of sensitive ecosystems on or adjacent to the project area have not been observed through the information provided in its PID and any related risk is not anticipated.</p> <p>Subproject-specific ESMP is required to identify the closest sensitive ecosystems, address potential risks (if any) and related mitigations in line with ESS6.</p>
2.	Natural Habitats		✓	<p>There are no natural habitats on or adjacent to the project area.</p>

3.	Areas with Protection Status (Cultural/Archaeological/Natural)		✓	Presence of areas of protection status on or adjacent to the project area have not been observed through the information provided in its PID. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8.
4.	Critical Habitats		✓	There are no critical habitats on or adjacent to the project area. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS6.
5.	Describe the Soil and Vegetation on Site		✓	The project passes along the existing urban and cadastral roads, soil is already disturbed and there is no significant vegetation on the project area.

Sensitive Receptors

Are there sensitive receptors in the area of influence of the sub-project, such as:

No.	Sensitive Receptors	Yes	No	Details
1.	Housing units, schools, hospitals or other sensitive receptors	✓		<p>Sensitive Receivers are available in the ASAT4-W3 project area. (Schools, Hotels, Greenhouse Areas, Residences)</p> <p>This is a linear environmental infrastructure Project to be conducted at Manavgat District passing through the existing public roads as provided in its PID and this Screening Form. So there will be housing units and possibility of schools, hospitals or other sensitive receptors which may be located at the sides of the roads where the sub Project will be implemented.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
2.	Culturally and/or socially important paths, areas/religious occupancies, burial grounds, tourist or pilgrim congregation areas, etc.		✓	<p>According to the site visits and desktop reviews, there are not culturally and/or socially important roads, areas/religious settlements, cemeteries, tourist or pilgrim gathering areas, etc.in the ASAT4-W3 project area.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS4 and ESS8.</p>
3.	Water sources (groundwater wells, springs, surface water resources)	✓		<p>The upstream part of the ASAT4-W3 project passes near Köprüçay.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
4.	Areas prone to flooding / landslides		✓	<p>There is not landslide risk within the ASAT4-W3 project region.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
5.	Downstream communities	N/A	N/A	<p>This is not related with the Project.</p> <p>Any risks related with the downstream communities are not anticipated at this stage.</p> <p>Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.</p>
6.	Areas Affected by Landslides		✓	<p>Based on the historical data research, no landslides have been recorded in the Subproject site. Geotechnical analysis has been conducted and the relevant information provided in the PID, please refer to “5.4.4 Geotechnical Study” section.</p>
7.	Other sensitive receptors		✓	<p>Presence of sensitive receptors on or adjacent to the project site have not been observed through the information provided in its PID and any related risk cannot be assessed at this stage.</p>

				Subproject-specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS1, ESS3, ESS4, ESS6, ESS8, ESS10.
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Current Environmental Status

No.	Sensitive Receptors	Yes	No	Details
1.	Is the site in critical / over exploited condition?		✓	This is a linear environmental infrastructure Project (30 km water supply line + 5.000 m ³ water storage tank) to be conducted at Manavgat District passing through the existing public roads as provided in its PID. No critical / over exploited condition is observed.
2.	Is the site covered with vegetation?	✓		The project passes through the existing urban and cadastral roads, soil is already disturbed and there is no significant vegetation on the project area.
3.	Is the site disaster-prone? If yes; list all disaster zone categories applicable.	✓		Due to its geological, tectonic, topographic, and meteorological characteristics, Antalya is among the regions with natural disaster risk in terms of floods, fires, overflows, and earthquakes. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1.
4.	Is the site suitable for proposed development?	✓		New water lines will be constructed in the areas where the existing networks are already located.
5.	Describe existing pollution or degradation in the site(s)	N/A	N/A	New water lines will be constructed in the areas where the existing networks are already located. There are no existing pollution or degradation issues observed on the site at this stage. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS3.
6.	Any other remarks on baseline condition?		✓	There are no any other remarks on baseline condition at this stage.
7.	Is there a possibility for Asbestos Containing Materials at the site(s)?		✓	Presence of asbestos-containing material is not anticipated in ASAT4-W3 project area. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.

Anticipated Environmental Impacts: Impacts on Land, Geology and Soil

Will the proposed sub-project cause the following impacts on the land/soil?

No.	Impacts	Yes	No	Details
1.	substantial removal of topsoil (indicate in sqm)	✓		(22.000+54.000+27.000)

				In total, 103.000 m ² of soil will be excavated, and 27.000 m ² will be excavated within the scope of ASAT4-W3 project. Excavated soil will be backfilled.
2.	degradation of land		✓	Since the soil removed after excavation will be restored by backfilling, degradation is not anticipated.
3.	loss or impacts on cultural/heritage properties		✓	Loss or impacts on cultural/heritage properties are not anticipated on the Project site. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS8. It will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed in case of encountering any cultural/heritage properties.
4.	physical changes in the project area (i.e. changes to the topography) due to cutting and filling, excavation, earthwork or any other activity		✓	The excavated areas will be restored. Environmental arrangements will be carried out in the storage areas. For this reason, there will not occur any change in the topography of the project area.
5.	contamination or pollution of the Land? (indicate possible risks)		✓	Subproject may involve or lead to pollution/release of pollutants to air, water, land/ soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific ESMP is required to identify and as required address potential risks in line with ESS3.

Impacts on Water Environment

Will the sub-project or its components cause any of the following impacts on the quantity or quality of water sources?

No.	Impacts	Yes	No	Details
1.	Will the sub-project involve dredging in the river environment?		✓	ASAT4-W3 project will not include dredging.
2.	Impacts on availability and access to water resources		✓	There is not any impact on water resources located near the project area.
3.	Pollution of water bodies/ground water nearby or downstream		✓	Pollution of water bodies/ground water on or adjacent to the Project site is not anticipated. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from rain/stormwater or wastewater generation due to dust suppression activities will be managed properly. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
4.	Impacts on river flow patterns		✓	There will not be any impact on river flow patterns.
5.	Will the project result in stagnation of water flow or pondage?		✓	ASAT4-W3 project will not result in stagnation of water flow or pondage.

Impacts on Biodiversity

Will the sub-project or its components cause any of the following impacts on biodiversity?

No.	Environmental Impacts	Yes	No	Details
1.	cutting of trees or clearing of vegetation?	✓		It is envisaged that a small number of trees in the construction storage area will be re-located. There will be no significant clearing of vegetation within the project site boundaries and it will be avoided unless it is necessary.
2.	habitat fragmentation due to the clearing activities? (i.e. hindrance to the local biodiversity like disturbing the migratory path of fish, birds, mammals, etc.)		✓	No such risks are anticipated for the subproject.
3.	potential nuisance of noise and light pollution or any disturbance on surrounding habitats		✓	During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.

Impacts on the Communities

Will the sub-project or its components cause any of the following impacts on the nearby communities?

No.	Environmental Impacts	Yes	No	Details
1.	Health & Safety risks in nearby communities (major accident risks such as explosions, fires, toxic releases, etc.)		✓	No major health and safety risks due to the project activities are anticipated for nearby communities. Although there is no risk of explosion in the project site, appropriate and sufficient fire-fighting equipment will always be available in the construction sites. Emergency will be managed through an Emergency Preparedness and Response Plan. Potential risks and mitigation measures regarding health and safety will be assessed and identified within the scope of the subproject specific ESMP.
2.	Potential noise/vibration to nearby communities	✓		During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. The noise level at 100 meters distance will not exceed 70 dBA. The construction work area environment will be adapted accordingly, and necessary measurements will be carried out. Potential risks and mitigation measures regarding noise/vibration related impacts and risks of the Project will be assessed and identified within the scope of the subproject specific ESMP.
3.	Potential damages to common property, roads, etc.	✓		Backfilling and asphalt coating works will be carried out in the project site, and damaged roads will be repaired. Inadvertent

				<p>damage to surrounding land, assets and structures will be repaired/compensated by contractor.</p> <p>Subproject-specific ESMP and SEP is required to identify and as required address potential risks and mitigations in line with ESS4.</p>
4.	Potential risks of traffic accidents	✓		<p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS4 including Traffic Management Plan to be applied during the subproject implementation. The citizens will be informed about the construction works and construction schedule before the works begin, and precautions will be taken against possible accident risks by preparing a Traffic Management Plan.</p>

Impacts due to Storage and Wastes: Pollution and Hazards

Will the sub-project or its components cause any impacts resulting from material storage, waste or pollution caused by substances released during various project activities?

No.	Type	Yes	No	Details
1.	Does the project include use or storage of dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products; any other?		✓	<p>Regarding the information provided in PID, the project does not include use or storage of dangerous substances.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
2.	Will the project produce solid or liquid wastes; including construction/demolition wastes (including dredging, de-weeding wastes, muck/silt, dust); polluted liquids?	✓		<p>Solid waste and excavation waste will be produced during the construction activities.</p> <p>Municipal waste production by construction workforce is foreseen.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>

Environmental Pollution

Will the process cause or increase the following?

No.	Type	Yes	No	Details
1.	Air pollution	✓		<p>During the works to be carried out at the construction phase of the project, the construction site and nearby areas will be affected by air pollution caused by construction machinery and by excavation works. (Exhaust gas, dust)</p> <p>Access to the construction site will be blocked, modern equipment and vehicles will be selected that can meet the relevant emission standards in construction activities, etc.</p> <p>Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
2.	Odor nuisance		✓	<p>Release of odor is not anticipated during the construction activities.</p>

3.	Environmental noise	✓		During the works to be carried out at the construction phase there may be increase in noise levels due to the operation of machinery/vehicles. Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
4.	Visual blight or light pollution		✓	There will be no visual blight or light pollution because of the nature of the project.
5.	Water pollution (surface waters, groundwater)		✓	For the construction phase domestic wastewater will be produced by construction workforce which will be discharged to the existing sewerage system operated by Antalya ASAT. In order to prevent contamination of water resources near the project area, the ends of uninstalled pipes will be closed. Surface flow resulting from rain/stormwater or wastewater generation due to dust suppression activities will be managed properly. Subproject-specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
6.	Soil contamination	✓		There is a risk of soil contamination caused by spills and scattering that may occur during the construction phase of the project. Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.
7.	Other types of impacts on the ambient environment		✓	It is not foreseen any other types of impacts on the ambient environment.
8.	Expose to the hazardous materials (such as asbestos)		✓	Exposure to any hazardous substances in the project site is not anticipated. In case of encountering asbestos containing material during the construction activities, it will be ensured that the relevant regulations and relevant sub-management plan (to be addressed at the sub project specific ESMP to be prepared) are followed during the removal, transportation and disposal of such pipes.

Suggested Environmental Enhancement Measures

Has the sub-project design considered the following enhancement measures?

No.	Enhancement Measures	Yes	No	Details
1.	Energy conservation measures / energy recovery options incorporated in sub-project design	✓		With the planned ASAT4-W3 project, it is aimed to save energy by minimizing the water losses. During the construction periodic maintenance of the equipment and machinery will be conducted.

2.	Waste minimization or waste reuse/recycle options	✓		<p>Waste generation will be observed during the construction phase due to the nature of the activities. The wastes to be generated will be managed in accordance with the waste management regulation and related sub-management plan (which will be prepared by its contractor).</p> <p>Site specific ESMP is required to identify and as required address potential risks and mitigations in line with ESS1 and ESS3.</p>
3.	Rainwater harvesting, water recycling and other water resource enhancement measures	✓		<p>The subproject scope involves water supply system which will enhance safely access to water and reduce water losses (non-revenue water).</p> <p>No rainwater harvesting, water recycling and other water resource enhancement measures are anticipated.</p>
4.	Mitigations against extreme events, drought, flood, other natural disasters	✓		<p>The extreme events are assessed at the design stage of the subproject and explained in its PID.</p>
5.	License for water withdrawal from surface water source	N/A	N/A	<p>Within the scope of the project, water will not be drawn from surface water sources.</p>
6.	Dredging permits	N/A	N/A	<p>Dredging will not be performed within the scope of the project.</p>
7.	License for transportation and storage of diesel, oil and lubricants, etc.	✓		<p>Diesel, oil and lubricants will not be stored within the scope of the project. In case it is required to transport diesel for refuelling of construction equipment, such services will be obtained from licensed companies.</p>
8.	License for transportation of hazardous wastes	✓		<p>Hazardous waste will be transported by licensed waste transportation companies in accordance with the regulations.</p>

SUMMARY OF ENVIRONMENTAL SCREENING

Project Categorization and Need for ESF Instruments, Oversight

Project Category	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Substantial	<input type="checkbox"/> High
Key Reasons	<p>The main environmental risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none">• Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks.• Subproject may involve or lead to pollution/release of pollutants to air, water, land/soil due to routine, non-routine and accidental circumstances during construction and operation phases. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as “Moderate”.</p>			

Safeguards Instruments Required	<input type="checkbox"/> ESIA and ESMP <input checked="" type="checkbox"/> ESMP <input checked="" type="checkbox"/> SEP <input type="checkbox"/> RP <input type="checkbox"/> Ex-Post Social Audit Report
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Status		Name, Signature with Date
Prepared by		
Checked and categorized as (low, moderate, substantial, high) by		
Reviewed and approved by		

Social Screening Form

Land Acquisition and Livelihoods

Land Acquisition	Yes	No	Details
Does the sub-project require private land acquisition?		✓	All of the works planned to be carried out within the scope of the project will pass through the zoning or cadastral roads. Additional land acquisition or expropriation will not be required of any private parcels.
Was the land required for sub-project already acquired?	✓		<p>The ownership of the roads in the zoning plan belongs to the municipality. All the lines to be manufactured are on zoning roads.</p> <p>The ownership of the roads in the zoning plan belongs to the municipality. All the lines to be manufactured are on zoning roads.</p> <p>The allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the "Final Permission Commitment Document" regarding the allocation of the land with File No. 29-4082 to the General Directorate of ASAT for 49 years is given in Annex-3 "Ownership Documents" of ESMP Document. The 'Final Permission Confirmation' numbered E-67480784-020-12982275 received from the General Directorate of Forestry, Antalya Regional Directorate of Forestry is presented in the Annex-3 "Ownership Documents" of ESMP Document. Moreover, the constructions to be carried out between points</p> <p>The works given in Annex-1 between points C-D will be carried out in the section of the General Directorate of State Hydraulic Works canal side sediment road and there is no private property occupation. The necessary protocol procedures with the General Directorate of State Hydraulic Works will be carried out during the construction phase of the Project.</p>
Has the acquired lands been duly transferred and are there any litigation/legacy (pending for title transfer, compensation payment, ownership disputes etc) issues?	✓		<p>The acquired lands have been duly transferred. There are no litigation/inheritance issues.</p> <p>The allocation process between the Regional Directorate of Forestry and the General Directorate of ASAT for the new drinking water storage tank to be constructed has been completed, and the "Final Permission Commitment Document" regarding the allocation of the land with File No. 29-4082 to the General Directorate of ASAT for 49 years is given in Annex-3 "Ownership Documents" of ESMP Document. The 'Final Permission Confirmation' numbered E-67480784-020-</p>

Türkiye Earthquake, Floods and Wildfires Emergency Reconstruction Project (TEFWER)
Environmental and Social Impact and Risk Screening Forms-ASAT4-W3

			12982275 received from the General Directorate of Forestry, Antalya Regional Directorate of Forestry is presented in the Annex-3 "Ownership Documents" of ESMP Document. Moreover, the constructions to be carried out between points
Are there any complaints/unresolved cases of already acquired lands?		✓	There are no complaints or unresolved cases of already acquired lands.
Is it possible to purchase privately owned through a Willing Buyer–Willing Seller agreement?		N/A	There is no manufacturing that comes under private ownership.
Does the sub-project cause any access restriction to the commuters/pedestrians/ business and trades?	✓		There may be temporary access restrictions for springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Open excavation of more than 200 m will not be allowed. In addition, temporary roads will be established for the citizens and local tradesmen in order to provide access to residences and workplaces, and the citizens will be informed about the temporary roads by sketch before the construction works start. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.
Is land for material mobilization or transport for the civil work available within the existing plot/Right of Way?	✓		Yes, the land is available within the right of way. Enough material will be transported to the relevant work areas when the work started. Thus, the amount of material that needs to be stored in the work area will be low.
Are there any formal / informal users or non-titled people who are utilizing (inhabiting/doing business or using for other purposes etc.) the proposed site/project locations that will be used for civil works? If yes, please provide how many and for what purposes.		N/A	This is a linear environmental infrastructure Project (30 km water supply line and 5.000 m ³ water storage tank) to be conducted in Manavgat passing through the existing public roads as provided in its PID and this Screening Form. There will not be any other lands apart from the public roads to be utilized, and there are not any informal users.
Is any temporary impact likely on livelihoods of persons living on the land to be acquired?		✓	No lands to be acquired.
Is there any possibility to move out, close of business/commercial/livelihood activities of persons during construction?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no possibility to move out or close of business. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.

Is there any case of temporary or permanent physical displacement of persons due to sub-project works?		✓	There will not be any temporary or permanent physical displacement within the scope of the Sub-project.
Does this project involve resettlement (physical displacement) of any persons? If yes, give details		✓	There will not be any resettlement of any persons within the scope of the Sub-project.
Will there be loss of/damage to productive trees, fruit plants or crops that generate livelihood income for the households?		✓	There will be no loss of productive trees, fruit plants or crops that generate livelihood income for the households.
Will there be loss of incomes and livelihoods for anyone due to project intervention?		✓	The impact of the project on business/commercial/livelihood activities in the work areas will be local and temporary. Temporary access routes will be provided for affected workplaces during the work. Therefore, there will be no loss of incomes and livelihoods. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
Will people permanently or temporarily lose access to facilities, services, or natural resources?		✓	Temporary access routes will be provided for affected people during the work. Therefore, there will be no permanently or temporarily loss of access to facilities, services, or natural resources. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.

Labor

Labor Issues	Yes	No	Details
Will project cause loss of employments/jobs?		✓	The ASAT4-W3 project will not cause job loss and will also lead to new employment for the local public. No loss of employments/jobs are anticipated due to the works within the scope of the Sub-project. The number of personnel to work on site during the construction phase is approximately 60 people.
Will project generate excessive labor influx as a result of new constructions?		✓	Within the scope of the project, there will not occur excessive labor force influx as a result of construction works. The number of personnel to work on site during the construction phase is approximately 60 people.
Does construction activities require additional/skilled labor from outside the locality?	✓		Construction works may require additional/skilled labor from outside the region.

Will sub-project/construction activities cause destruction/disturbance to host community living?	✓		The construction activities might cause disturbance to host community living such as dust, noise, and traffic. But these affects will be local and temporary. Site specific ESMP is required to identify and as required address potential risks and mitigations.
Will construction of new buildings, drainage lines, powerlines create any degradation/disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc.?		✓	The water supply networks will be constructed on the already existing public roads within the scope of the Sub-project. Any disturbances for public buildings/resources/ adjacent houses, wells, lands, burial places, children parks, schools etc. will be mitigated in accordance with the site specific ESMP which are required to be prepared.
Will this intervention generate downsize in current labor force (retrenchments) of the agency?		✓	No generation of downsizing of current labor force (retrenchments) of the agency is anticipated.
Are there are GBV/SEA/SH risks for workers?	✓		Yes, there are always such risks for workers, regardless of project activities. The contractor will ensure that all workers are provided with training on project requirements (individually or collectively). These trainings will also include raising awareness about avoidance of sexual exploitation, abuse and sexual harassment, gender-based violence and the code of conduct that all workers must comply with. Any complaint about these issues will be handled strictly confidential.
Is there a grievance mechanism for the workers? Is it functioning?	✓		They can state their complaints via “Alo 185”. In addition, a complaint mechanism is also working through CIMER. In addition, an internal grievance mechanism will be established within the scope of the project. With this mechanism, the rights of the workers and their expectations, opinions, suggestions, and grievances will be recorded and responded to. In this way, the evaluation, approval, investigation, implementation of the improvement activities and closure of the grievances will be carried out in a short time.

Vulnerable Groups

Vulnerability Issues	Yes	No	Details
Are there any vulnerable groups who may be affected adversely due to the sub-project?	✓		Disabled and elderly citizens who may use temporary roads during construction, chronic patients who may be affected by dust during excavation works.

			Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.
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SUMMARY OF SOCIAL SCREENING

Project Categorization and Need for Safeguards Instruments, Oversight

Project Category	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	<p>The main social risks due to the activities planned within the scope of the Sub-project are related with the construction of water supply line on the existing public roads and a water tank listed as in below.</p> <ul style="list-style-type: none">• Subproject may involve or lead to general and sector-specific OHS risks that need to be managed in accordance with national legislation and good international industry practices (e.g. WB Group Environmental, Health and Safety Guidelines) throughout the construction phase mainly. Subproject-specific E&S assessment and management documentation is required to address the risks adequately. Contractors are required to prepare and implement subproject specific OHS management plans and procedures addressing the identified OHS risks.• Subproject may lead to temporary access restriction to springs/workplaces and tradesmen during construction works. Alternative safe passage routes will be created with the planning to be made. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations in line with ESS4.• Subproject will lead to increased risk of traffic related accidents and road safety issues on the provincial roads/motorways and village roads during the construction phase. Subproject-specific E&S assessment and management documentation is required to address the risks adequately.• Subproject activities might cause disturbance to host community living such as dust, noise, and traffic. But these affects will be local and temporary. Site specific ESMP and SEP are required to identify and as required address potential risks and mitigations.• Subproject may involve risk of managing stakeholder expectations, reactions, grievances, feedback, etc. A SEP, including grievance mechanism for public, is required to be prepared in line with ESS10. SEP must cover any vulnerable/ disadvantaged groups etc. if any. <p>The identified risks and their impacts will have medium magnitude, will be limited in scale (site-specific) and will be temporary, can be avoided, managed and/or mitigated with relatively uncomplicated accepted measures which will be defined in ES assessment documents (ESMP, SEP, OHS Management Plan, etc.). So, the risk rating has been defined as “Moderate”.</p>

Safeguards Instruments Required		
<input type="checkbox"/> ESIA and ESMP		
<input checked="" type="checkbox"/> ESMP		
<input checked="" type="checkbox"/> SEP		
<input type="checkbox"/> RP		
<input type="checkbox"/> Ex-Post Social Audit Report		
Status	Agency / Official	Name, Signature with Date
Prepared by		
Checked and Categorized as (low, moderate, substantial, high) by		
Reviewed and accepted by		

ANNEX-1: ASAT4-W3 Drinking Water Storage Tank and Network Line in Districts affected by Wildfire (Manavgat; Gündoğdu, Hocalar, Kısalar Districts)



ASAT4-W3 Manavgat Demirciler Neighborhood Drinking Water Network Line



MEVCUT İÇMESUYU HATLARI

MEVCUT KANALİZASYON HATLARI

MEVCUT YAĞMURSUYU HATLARI

ULUKAPI TERFİ HATTI GENEL VAZİYETİ





MEVCUT İÇMESUYU HATLARI

MEVCUT KANALİZASYON HATLARI

MEVCUT YAĞMURSUYU HATLARI

ILICA MAH. ŞEBEKE HATTI GENEL VAZİYETİ



MEVCUT İÇMESUYU HATLARI
MEVCUT KANALİZASYON HATLARI
MEVCUT YAĞMURSUYU HATLARI

GÜNDOĞDU TERFİ VE İSALE HATTI GENEL VAZİYETİ

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- 1) Ulukapı Water Storage Tank Final Permission Undertaking Deed (ASAT4-W1)**
- 2) Ulukapı Wells Area Allocation Certificate (ASAT4-W1)**
- 3) Ilca Water Storage Tank Location Pre-Allocation Document (ASAT4-W2)**
- 4) Kartlar Location Water Storage Tank Final Permission Undertaking Deed (ASAT4-W3)**
- 5) Kartlar Location Water Storage Tank Final Permission Confirmation (ASAT4-W3)**

KESİN İZİN TAAHHÜT SENEDİ
(Orman Kanununun 17 nci Maddesinin Üçüncü Fıkrasına İlişkin İzinler İçin)

Orbis Dosya No	: 05-11-06-00390	Dosya No	: 29-3772
Talep No	: 2021-37234		
İzin Sahibi	: Antalya Su ve Atıksu İdaresi Genel Müdürlüğü		
TC Kimlik No/Vergi Kimlik No/MERSİS NO/DETSİS NO	: 98741390		
İzin Konusu	: Su Tesisi (Su İsale Hattı ve Su Deposu)		
Orman Bölge Müdürlüğü	: Antalya	İli	: Antalya
Orman İşletme Müdürlüğü	: Manavgat	İlçesi	: Manavgat
Orman İşletme Şefliği	: Manavgat	Köyü/Mevkii	: Ulukapı
Bölme No	: 126-171		
İzin Alanı (m2)	: 2.424,38		
İzin Süresi	: 49 yıl		
İzin Başlangıç Tarihi	: 10.02.2022	İzin Bitiş Tarihi	: 10.02.2071
Olur Tarihi ve Sayısı	: 10.02.2022 tarih ve 3571415 sayılı Bölge Müdürlüğümüz Olur'u		
Arazi İzin Bedeli	: 5.706,68 TL		(2022 Yılı Bedeli)(KDV hariç) 20 Mayıs 2015 tarih ve 29361 sayılı Yönetmelik değişikliğinin 4 maddesi gereği %95 indirimli olarak 285,33 TL. alınacaktır.
Teminat	: ..		

Not:Bedel bölümüne; bedelsiz izinlerde "bedelsizdir" ifadesi, bedellere tanınan kanuni istisnalar olması halinde ise bu husus ayrıca yazılacaktır. Arazi izin bedelinden ayrıca KDV alınacaktır.

6831 sayılı Orman Kanununun 17 nci maddesinin üçüncü fıkrası gereğince yukarıda belirtilen şekliyle Devlet ormanı üzerinde kesin izin verilmiştir. Bu taahhüt senedi, genel bütçe kapsamındaki kamu idareleri ile kamu kurum ve kuruluşlarında kurum yetkililerince onaylanmasını, gerçek ve özel hukuk tüzel kişilerin ise noter onayını takiben hüküm ifade eder.

1- İzin sahibi, tebliğ tarihinden itibaren en geç altı ay içinde; bir defaya mahsus olmak üzere tahakkuk eden ağaçlandırma bedelini, orkoy bedelini, erozyon bedelini, depolama bedelini ve her yıl alınacak olan arazi izin bedeline ait ilk yıl arazi izin bedelini ilgili hesaplarına yatırmadan, teminat ve onaylı/noter onaylı taahhüt senedini orman idaresine vermeden saha teslimi yapılmaz, çalışmalara müsaade edilmez. Aksi halde verilen izin resen iptal edilmiş sayılır. İzin dosyasındaki mevcut koordinatlarına göre saha teslim alınmadan yapılacak çalışmalar Orman Kanununa göre suç sayılacaktır.

2- İzin sahibi, izin sahasını izin verilmiş maksadı dışında kullanamaz, izin dosyasında mevcut ve izne konu projedeki tesisler dışında tesis yapamaz, her ne sebeple olursa olsun yapılacak plan tadilatı ve ek tesisler için izin almak, vaziyet/imar planına uymak ve izin verilen ek tesisler için yürürlükteki yönetmelik hükümlerine göre ayrıca belirlenecek bedelleri ödemek, onaylı/noter onaylı ek taahhüt senedi ve teminat vermek zorundadır. İzin sahasındaki izinsiz yapılaşmalar Orman Kanununa göre suç sayılacaktır.

3- Müteakip yıllara ait arazi izin bedelleri, BAK (Bedel Artış Katsayısı) oranında artırılmak suretiyle tespit edilerek bildirimde gerek kalmaksızın izin başlangıç tarihinde her yıl defaten tahsil edilir.

İzin sahibinin kesin izinden vazgeçtiğini ve faaliyetini durdurduğunu orman idaresine yazılı olarak bildirdiği durumlarda orman idaresince sahanın geri teslim alındığı tarihte tahakkuk etmiş olan yıllık bedelin tamamı tahsil edilir, devam eden yıllara ait bedel tahakkuk ettirilmez.

Ancak;

a) İzin sahibinin kesin izin başlangıç tarihinden itibaren bir yıl içinde vazgeçmesi nedeniyle iznin iptal edilmesi ve yatırılan bedellerin ve teminatın iptal tarihinden itibaren en geç üç ay içinde idaresinin talep edilmesi halinde; izin verilen saha içinde hiçbir noktada çalışma yapılmamış olması

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ve izin öncesi doğal yapının bozulmamış olmasının heyetçe düzenlenecek raporla tespiti ve bölge müdürlüğünün onayı ile arazi izin bedeli dışındaki bedeller ve teminat faizsiz olarak iade edilir.

b) Verilen kesin iznin her ne şekilde olursa olsun izin sahibinin kusur ve/veya ihmalinin bulunmadığı durumlar nedeniyle iptal edilmesi ve iptalini müteakip altı ay içinde izin sahibinin talep etmesi halinde; izin verilen sahada çalışma yapılmadığının, izin öncesi doğal yapının bozulmadığının heyetçe düzenlenecek raporla tespiti halinde, alınan tüm bedeller ve teminat faizsiz olarak iade edilir.

Kesin izin verilen sahanın bir kısmı üzerindeki iznin iptal edilmesi halinde alınan bedeller iade edilmez. Ancak arazi izin bedeli ve teminat yeni duruma göre güncellenir. İzin verilen alanın bir kısmının iptali halinde; iznin devam eden kısmı için arazi izin bedeli, kısmi iptalden önceki taahhüt senedinde belirtilen bedel üzerinden oranlanarak hesap edilir.

İzin süresinin bir yıldan az veya izin bitim tarihi belli olanlar için, arazi izin bedeli bu sürelere göre oranlanarak hesap edilir.

4- Bu taahhüt senedinde bahsedilen bedellerden zamanında ödenmeyenler için, izinlerin iptaline ilişkin hükümler saklı kalmak kaydıyla bildirimde gerek kalmaksızın 6183 sayılı Âmme Alacaklarının Tahsil Usulü Hakkında Kanununun 51 inci maddesinde yer alan gecikme zammı oranında faiz uygulanır. Kısmen ödeme yapılması halinde yapılan ödeme öncelikle faize mahsup edilir.

5- Teminat, bu taahhüt senedine uygun çalışmayı temin etmek maksadıyla izin başlangıcında alınır.

Teminat olarak alınan değerler, teminat olarak kabul edilen değerler ile değiştirilebilir.

İznin, verilen sürenin dolması sebebiyle sona ermesi ve taahhüt senedi ile ilgili yükümlülüklerini yerine getirmesi halinde teminat faizsiz olarak iade edilir. Yürürlükteki yönetmelik ve bu taahhüt senedi hükümlerine uygun davranılmadığının tespiti üzerine iznin iptali halinde ise teminat irat kaydedilir. İrat kaydedilen teminat borca mahsup edilmez.

6- Kesin izin, talep edilmesi halinde Bakanlıkça devir edilebilir. Devir alanın, devir eden adına olan ruhsat, lisans, tahsis, kira sözleşmesi gibi belgenin devrini alması, taahhüt senedi ve teminat vermesi zorunludur. Aksi halde devir edenin orman idaresine karşı sorumlulukları aynen devam eder.

İzin devir edilmesi halinde arazi izin bedeli güncellenir.

7- İzin sahasındaki ağaçların kesilmesi gerektiğinde bu ağaçlar mahalli orman idaresince usulüne uygun damgalandıktan sonra kesilecek ve değerlendirilecektir. İzinsiz ağaç kesilmesi, izin sahası içinde de olsa Orman Kanununa göre suç sayılır. İzin sahası içerisindeki tali ürünler orman idaresince usulüne göre değerlendirilir.

8- İzin sahasında inşaat atıkları/artıkları bulundurulmayacak ve ormana dökülmeyecektir. İşin sonunda şantiye tesisleri sökülerek kaldırılacak, varsa inşaat atıkları/artıkları ile birlikte orman sınırları dışına taşınacaktır. Aksi halde bu işlemler orman idaresince yaptırılır ve masrafları yüzde elli zamlı olarak izin sahibinden tahsil edilir.

9- İzin verilen tesisin inşaatı esnasında çıkan kazı fazlası malzeme için orman alanı içinde izin alınması zorunludur. Bu alana dışarıdan getirilecek herhangi bir malzeme dökülmeyecektir. Kazı fazlası malzeme alanı, kademeli kapatma planına uygun ve ağaçlandırmaya hazır halde orman idaresine teslim edilecektir.

10- Kazı fazlası ve katı atık bertaraf tesis izinlerinde depolama kısımları için kademeli kapatma planına uygun çalışılacaktır.

11- İzin sahibi; çevre kirliliğini önleyici her türlü tedbiri almak, ÇED belgesi kapsamında taahhüt edilen hususlara uymak zorundadır. İnşaat çalışmalarının sona ermesine müteakiben kullanılmayacak alanlar usulüne uygun ağaçlandırılır.

12- İzin sahibi, kendisine teslim edilen orman alanında ve bitişindeki ormanların korunmasına, orman yangınlarına karşı gerekli önlemleri almaya ve orman idaresinin direktiflerine uymaya mecburdur. Bu konudaki kusur ve ihmalden dolayı muhtemel idare zararından orman idaresine karşı sorumlu olacaktır. İdarenin talebi halinde izin sahibi, her türlü makine ve emrinde çalışan işçi ile orman yangınlarının söndürülmesine yardımcı olacaktır.

13- İzin sahasında ve çevresindeki ormanlık alanlarda faaliyetinden dolayı doğacak her türlü zarardan izin sahibi sorumludur. Ayrıca, izin sahibiyle üçüncü kişi ya da kuruluşlar arasında sözleşmeye dayanılarak yapılan faaliyetlerden üçüncü kişi de izin sahibiyle birlikte sorumludur.

14- İzin verilen orman sahası ve üzerindeki tesisler Tarım ve Orman Bakanlığının izni olmadan başka şahıs ve kurumlara devredilemez ve işletmeye verilemez, maksadı dışında kullanılamaz.

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Ancak; Orman Kanununun 17 nci maddesinin üçüncü fıkrasına göre; sağlık, eğitim ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin dışındaki kafeterya, kantin, otopark gibi yan ünitelerin kiralanmasının, aynı fıkra kapsamında diğer izinlere konu tesislerin tamamının veya bir bölümünün kiralanmasının veya özelleştirme uygulamaları kapsamında işletme hakkının devredilmesinin, yap-işlet-devret modeli ile yaptırılmasının izin sahibi tarafından talep edilmesi halinde heyetçe konu incelenir. İnceleme raporu düzenlenir. Uygun görülenlere mevzuata uygun olarak Bakanlıkça izin verilir.

Kiralanmasına izin verilmesi halinde izin sahibince; kiracı ile izin sahibi arasında imzalanan sözleşmenin noter onaylı bir sureti orman idaresine verilir, kira sözleşmesinde belirtilen tarihten itibaren kira bedelinin yüzde ellisi en geç bir ay içinde her yıl Genel Müdürlük özel bütçe hesabına yatırılır. Kira bedelinin aylık ödenmesi halinde aylık kira bedeli oniki ile çarpılır bulunan bedelin yüzde ellisi kira sözleşmesinde belirtilen ilk kira ödeme tarihinden itibaren en geç bir ay içinde ödenir. **Ancak sağlık, eğitim, yükseköğretim kurumu ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin dışındaki kafeterya, kantin, otopark gibi yan ünitelerin kiralınması halinde; harp, yangın, deprem, afet, salgın hastalık gibi mücbir sebeplerden kaynaklı kiralanan tesislerin işletilemediğinin belgelendirilmesi durumunda bu süreler için kira bedeli alınmaz.**

Kira sözleşmesinin sona ermesi halinde en geç bir ay içinde orman idaresine bildirilir. İzin alınmadan kiralınması veya kira sözleşmesi sona erdiği halde bildirimde bulunulmaması durumunda doğacak her türlü hukuki ve mali yükümlülüklerden izin sahibi sorumlu olacaktır. Yükümlülüklerin yerine getirilmemesi halinde verilen kiralama izni resen iptal edilir.

Sağlık, eğitim ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin kiralınmasına, işletme hakkının devredilmesine, yap-işlet-devret modeli ile yaptırılmasına izin verilmez.

Sağlık Bakanlığında sağlık tesisleri, Milli Eğitim Bakanlığında eğitim tesisleri için kamu özel iş birliği modeli çerçevesinde yaptırılması maksadıyla verilen izinlerde ilgili bakanlıklarca yüklenici adına üst hakkı tesisi talep edilmesi, yüklenici tarafından izinli alana ait cari yıl ağaçlandırma bedelinin yatırılması ve Hazine ve Maliye Bakanlığınca iznin bulunduğu bölge müdürlüğü sınırları içinde izin alanının en az iki katı kadar alanın ağaçlandırılmak üzere Genel Müdürlüğe tahsis edilmesi halinde izin sahibi bakanlıkça bildirilen yüklenici adına izin süresi ile sınırlı olmak kaydı ile üst hakkı kurulmasına Bakanlıkça izin verilir. Yüklenici, taahhüt senedi hükümlerinden orman idaresine karşı sorumlu olduğuna dair ek taahhüt senedi verir.

İzin verilen alanda izin sahibi ile üçüncü kişi veya kuruluşlar arasındaki sözleşmeye dayanarak yapılan faaliyetlerden izin sahibi üçüncü kişi ile birlikte sorumludur.

15- İzin sahasında izinsiz yapılaşmaların, proje ve maksat dışı tesis ve kullanımların olup olmadığı, gerektiğinde orman idaresi görevlilerince kontrol edilecektir. Kontrollerde izin sahibi, kiracı veya işleticiler orman idaresi görevlilerine gereken kolaylığı göstermek, istenen belgeleri ibraz etmek zorundadır.

16- İzin; izin süresinin dolması, izin sahibinin vazgeçmesi, izin sahibi gerçek kişi ise ölümü tüzel kişi ise tüzel kişiliğın herhangi bir sebeple sona ermesi, kanun, yönetmelik ve bu taahhüt senedi hükümlerine aykırı davranılması, orman idaresince yapılacak yazılı ihtara rağmen aykırı durumun giderilmemesi, izin verilmesine dayanak belgelerden en az birinin iptal edildiğinin tespiti halinde Bakanlıkça iptal edilir.

Ancak gerçek kişilerde izin sahibinin ölümü, altı ay içinde mirasçılarının talebi ile izin, kalan süre kadar mirasçılara veya temsilcileri adına yenilenebilir.

17- Kesin izin verilen alanda saha tesliminden itibaren üç yıl içinde yatırıma başlanılmaması, bu Yönetmelik ve taahhüt senedi hükümlerine aykırı davranılması halinde kesin izin iptal edilerek ilgiliye tebliğ edilir. Ancak, yatırıma başlanma süresi Tarım ve Orman Bakanlığının uygun gördüğü zaruri hallerde Bakanlık onayı ile iki yıl daha uzatılabilir.

18- İznin herhangi bir şekilde sona ermesi halinde; her türlü bina ve tesisler çalışır durumda, eksiksiz ve bedelsiz olarak, yapılacak tebligat tarihinden itibaren en geç üç ay içinde orman idaresine teslim edilir. Teslim işlemlerinden önce veya devir işlemleri sırasında tesislerin sökülmesi, yıkılması ve kullanılan malzemelerin kaçırılmasından izin sahibi sorumludur. Orman idaresinin teslim almak istemediği tesisler ise yapılacak tebligatı takiben altı ay içinde izin sahibi tarafından sökülerek orman sınırları dışına çıkarılır. Aksi halde bu işlemler orman idaresince yaptırılır ve masrafları yüzde elli fazlası ile izin sahibinden tahsil edilir.

Kesin izin süresi izin sahibinin talebi halinde uzatılabilir. Süre uzatımında arazi izin bedeli güncellenir ve kesin izin süresi, uzatmalar dahil toplam kırkdokuz yılı geçemez. Ancak izin maksat

ve şartlarına uygun olarak faaliyet gösteren hak sahiplerinin izin süreleri; yer, bina ve tesislerin rayiç değeri üzerinden belirlenecek yıllık rayiç bedelle doksan dokuz yıla kadar uzatılabilir. Tesislerin orman idaresine devir işlemleri bu süre sonunda yapılır.

19- İzin sahasında eski ve tarihi eserlere rastlandığında izin sahibince çalışmalar durdurularak, eserler kazı yerinde muhafaza edilir, mahalli orman idaresine ve mülki amirliğe haber verilir.

20- Talep sahasının bir bölümünün veya tamamının 6831 sayılı Kanununun 16 ncı maddesi, 17 nci maddesinin üçüncü fıkrası ve 18 inci maddesine göre verilen bir başka izin alanına isabet etmesi halinde daha önce verilen izin sahibinin muvafakatı aranır, muvafakat verilmemesi halinde İdarece resen izin verilebilir. Talep sahibince mevcut izinle ilgili gerekli tedbirler alınarak çalışılır. Talep sahibinden her türlü zarar ziyandan sorumlu olacağına dair ek taahhüt senedi alınır.

21- İzin verilen alanın bir bölümünün, zorunluluk halinde, yol, su, enerji nakil hattı gibi altyapı tesisleriyle Orman Kanununun 17 nci maddesinde yer alan tesislerin yapılması maksadıyla verilecek izin alanıyla kesişmesi ve izin sahibinin muvafakatı olmaması halinde mevcut izin faaliyetinin engellenmemesi için gerekli tedbirler talep sahibi tarafından alınması kaydıyla orman idaresi resen izin verebilir. İzin sahibi hiçbir hak talebinde bulunamaz.

İzin verilen yol, su, enerji nakil hattı gibi altyapı tesis izinlerinin bir başka ruhsat sahibi tarafından kullanılmak istenmesi halinde izin faaliyetinin engellenmemesi şartıyla izin sahibinin muvafakatı aranır, muvafakat verilmemesi halinde orman idaresince, orman alanlarının en az zarar görmesi maksadıyla bu altyapı tesislerinin kullanılmasına müsaade edilebilir.

Pasa döküm alanı, atık barajı gibi altyapı tesisi izinlerinde biriktirilen atık ve artıkların kamu kurum ve kuruluşlarının kendi projelerinde kullanılmak üzere talep edilmesi halinde orman idaresi izin sahibinin muvafakatı aranmaksızın resen izin verir. Verilen bu yeni izin sebebi ile izin sahibi hiçbir hak talebinde bulunamaz.

İzin verilen tesis alanları ile yol, su, enerji nakil hattı gibi altyapı tesis alanlarından Tarım ve Orman Bakanlığı ve bağlı kuruluşlarının proje ve faaliyetlerinde kullanılması ihtiyacı hasıl olduğunda orman idaresi, izin sahibinin muvafakatı aranmaksızın resen izin verir. Verilen bu yeni izin sebebi ile izin sahibi hiçbir hak ve bedel talebinde bulunamaz.

Tarım ve Orman Bakanlığı veya bağlı kuruluşlarının faaliyetleri sebebiyle karayolu istimlak sahalarının içerisinde boyuna ve enine geçiş talep etmeleri halinde, bu talep Karayolu Genel Müdürlüğüne herhangi bir bedel talep edilmeksizin karşılanacaktır.

22- Orman alanı dışındaki demiryolu, otoyol, Devlet ve il yolları ile su isale hatlarının yapımında zorunlu olarak ortaya çıkan kazı fazlası malzemenin depolanması maksadıyla verilen izinler hariç, Orman Kanununun 17 nci Maddesinin Üçüncü Fıkrasının Uygulanması Hakkında Yönetmelik'e göre verilen izne konu tesislerin inşaatı esnasında ormanlık alandan çıkan orman toprağını da içeren kazı fazlası malzemelerin depolanacağı izin alanlarına, izin alanı dışından getirilecek herhangi bir malzeme dökülemez.

23- Enerji Piyasası Düzenleme Kurumu tarafından düzenlenmiş ön lisansla birlikte diğer kurum ve kuruluşlardan alınması gereken izin, onay, ruhsat, muvafakat ve yürürlükteki yönetmelikte istenilen diğer belgelerle kesin izin için müracaat edilmesi halinde; Bakanlıkça kesin izin verilebilir. Bu durumda verilecek kesin iznin süresi üç yıldan fazla olamaz, sahada çalışma yapılmasına müsaade edilmez.

24- Lisanssız elektrik üretim tesisleri ile lisanslı güneş enerjisine dayalı elektrik üretim tesislerine orman sayılan alanlarda izin verilmez. Ancak Yönetmeliğin 4 üncü maddesi kapsamında ve turizm maksadıyla izin verilen bina ve tesislerin çatı ve cepheleri ile baraj ve gölet rezervuar alanları üzerinde ve rezervuarlı veya regülatörlü hidroelektrik üretim tesisleri sahaları kapsamındaki su yüzeylerine kurulan enerji üretim tesislerine izin verilebilir. İzin verilen alan üzerinde kurulacak lisanssız elektrik üretim tesisi izinlerinden Yönetmeliğin 7 nci maddesinin birinci fıkrasında belirtilen bedellerin tamamı alınır.

25- İzin verilen yollar umumun kullanımına açık tutulacaktır. İzin verilen yollar çevreye zarar vermeyecek şekilde ekskavatörle yapılacaktır, yol yapımından çıkan malzeme ormana zarar vermeyecek şekilde izinli alanlara taşınacaktır. İzin sahibinin orman yollarından yararlanması halinde bu yollara verdiği zararlar izin sahibince karşılanır.

26- İzin sahibi, izin verilen sahada ve inşa edilen tesislerde her türlü güvenlik tedbirini almak zorunda olup, zarar görecekt üçüncü kişilere karşı sorumludur.

27- İhtilaf halinde; bu taahhüt senedi hükümlerine göre, bu taahhüt senedinde hüküm bulunmayan hallerde ise kanun, yönetmelik ve ilgili mevzuat hükümlerine göre hareket edilir.

28- Bu taahhüt senedinin uygulanmasında doğacak ihtilaflarda izne konu sahanın bulunduğu yer mahkemeleri ve icra daireleri yetkilidir.

29- Mevzuat değişikliği nedeniyle ortaya çıkabilecek yükümlülüklerden orman idaresi sorumlu tutulamaz.

30- Bu taahhüt senedindeki adres tebligat adresi olup izin sahibi adres değişikliklerini, değişikliği takip eden 10 iş günü içinde yazılı olarak orman idaresine bildirir. Aksi halde bu taahhüt senedinde yazılı adres tebligata esas adres kabul edilir.

31- İzin verilen alanın diğer kanunlar uyarınca izin, görüş, muvafakat alınması gereken yerlerden olması halinde izin sahibince gerekli izin, muvafakat ve görüşler alınarak çalışma yapılacaktır. Aksi halde doğacak her türlü sorumluluk izin sahibine aittir. Muvafakat ve görüşler idare tarafından talep edilmesi halinde ibraz edilecektir.

32- Bu taahhüt senedi; genel bütçe kapsamındaki kamu idareleri ile kamu kurum ve kuruluşlarına ait izinlerde kurum yetkilisince, gerçek ve özel hukuk tüzel kişilerine ait izinlerde ise noterden her sayfası onaylanmış olarak bir takım halinde en geç tebligat tarihinden itibaren altı ay içerisinde orman idaresine verilecektir.

33- Bu taahhüt senedinde yazılı hususlara aynen uyulacağını kayıtsız ve şartsız olarak kabul ve taahhüt ederim.

Özel Hükümler : (İznin yeri ve özelliğine göre orman idaresince gerekli görülen hususlar yazılacaktır.)

İşbu taahhüt senedi otuzüç (-33) genel, (.....) özel maddeden ibarettir./..../20..

İzin sahibinin

Adı Soyadı/Unvanı : Antalya Su ve Atıksu İdaresi Genel Müdürlüğü

TC Kimlik/Vergi No :

Adresi :

E-Posta Adresi :

Telefon Numarası :

Av. İbrahim KURU
Asat Genel Müdürü

Mühür ve imza
(İzin sahibi)



Mustafa KAYNARCA
Harita, Aralık ve Kamulaştırma
Şube Müdürü

Recep ÇALI
Genel Müdür Yardımcısı

26/04/2022 Kararı Tarihi ve 2022/207 Kararı No ile
Çarçin Kurulu kararı alınarak onaylanmıştır

T.C.
MANAVGAT KAYMAKAMLIĞI
Malmüdürlüğü

Sayı : B.07.4.DEF.4.07.80.0.02 /07140110700 /1490
Konu : Tahsis

23 Hazir 2009

BELEDİYE BAŞKANLIĞINA
MANAVGAT

İlgi : 11/05/2007 tarih ve 3/9-C-22 sayılı yazınız.

TAŞINMAZIN			
Taşınmaz No	07140110700	Cinsi	Tarla
Fiili Durumu	Hazinenin Özel Mülkiyetinde	Yüzölçümü (m ²)	7.416,32
İli	Antalya	Hazine Hissesi	Tam
İlçesi	Manavgat	Tapu Tarihi	26/02/2009
Mahallesi / Köyü	Ulukapı Köyü	Pafta / Cilt No	026.b3 / 15
Caddesi / Sokağı	/	Ada / Sahife No	... / 1366
Yöresi		Parsel / Sıra No	1003 / ...

TAHSİS İLE İLGİLİ BİLGİLER		
Tahsis Edilecek Olan İdare	Antalya Belediyeleri / Manavgat Belediyesi	
Tahsis Amacı	İçme suyu temin alanı	
Tahsis Süresi / Yüzölçümü	1 (Bir) yıl	7.416,32

İlgi yazınız ile tahsisi talep edilen ve yukarıda tahsis edildiği idare ve tahsis amacı belirtilen, tapu kaydı bilgileri yazılı Hazineye ait taşınmazın tamamını, 315 sayılı Milli Emlak Genel Tebliği hükümleri doğrultusunda yapılan inceleme neticesinde söz konusu taşınmazın istenilen amaçta tahsisi; 178 sayılı Maliye Bakanlığının Teşkilat ve Görevleri Hakkında Kanun Hükmünde Kararnamesinin 13 üncü maddesinin (d) bendi ile 5018 sayılı Kanunun 47 nci maddesi uyarınca tahsisini, ticari amaçlarla kullanılmaması, üçüncü kişilere ticari ya da gayri ticari amaçla kullandırılmaması/devredilmemesi ve belirtilen süre içerisinde sondaj çalışmalarının sonuçlandırılması, bu alanda su bulunması ve ihtiyaç duyulması halinde su kaynağının tahsisi için yeniden talepte bulunulması, aksi takdirde tahsis işleminin herhangi işleme ve yazışmaya gerek olmaksızın kendiliğinden kalkmış sayılacağı şartıyla uygun görüldüğü Defterdarlık Makamının 09/06/2009 tarihli ve 5304 sayılı yazıları ile bildirilmiştir.

Söz konusu taşınmazı teslim almak üzere Dairenizden yetkili bir elemanın görevlendirilmesi ve Dairemize müracaatının sağlanması gerekmektedir.

Bilgi edinilmesini ve gereğini rica ederim.

...../06/2009
Ahmet BİLGİÇ
Malmüdürü

19/06/2009 Memur
20/06/2009 Müdür Yrd.

: B.HANÇERLİ
: H.K.KUZUGÜDENLİOĞLU



T.C.
ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI
MİLLİ EMLAK GENEL MÜDÜRLÜĞÜ



Sayı : E-66844966-400-9857868
Konu : Manavgat, Ilıca Mahallesi-İçme suyu
deposu tahsisi

ANTALYA BÜYÜKŞEHİR BELEDİYESİ	
Kayıt Yapan Birim	Yaz İşleri Şube Müdürlüğü
Evrak Kayıt No	110357
Kayıt Tarihi	3.7.2024

DAĞITIM YERLERİNE

- İlgi : a) Antalya Valiliğinin (Çevre, Şehircilik ve İklim Değişikliği İl Müdürlüğü) 07.02.2024 tarihli ve E-97073469-400-8718567 sayılı yazısı.
b) Bakanlığımızca (Bakanlık Müşavirliği) yayımlanan 2018/11 sayılı İç Genelge.

Antalya Valiliğinden (Çevre Şehircilik ve İklim Değişikliği İl Müdürlüğü) alınan ilgi (a) yazıda; İlleri, Manavgat İlçesi, Ilıca Mahallesinde bulunan mülkiyeti Hazineye ait 804 ada 2 parsel no.lu ve 235.770,63 m² yüzölçümlü taşınmazın, yazılarına ekli krokide gösterilen 6.279,64 m²lik kısmının "içme suyu depoları" olarak kullanılmak üzere Antalya Büyükşehir Belediye Başkanlığı (Antalya Su ve Atıksu İdaresi Genel Müdürlüğü) adına tahsisinin talep edildiği bildirilmiştir.

Yapılan incelemede söz konusu taşınmazın;

- "Antalya Manavgat İlçesi Ilıca Mahallesi 1617,636 ada 268 ve 269 parseller İlave Uygulama İmar Planı" içerisinde "Resmi Kurum Alanı (Adalet Bakanlığı)" ve "Teknik Altyapı Alanı" kullanımına ayrıldığı,

- 12.977,20 m²lik kısmının 1. derece arkeolojik sit alanında kaldığı, bu kısım hariç kalan 235.770,63 m² lik kısmının Adalet Bakanlığına (Ceza ve Tevkifevleri Genel Müdürlüğü) tahsisli olduğu ve üzerinde Manavgat S Tipi Kapalı ve Açık Cezavi Yerleşkesinin bulunduğu,

- Adalet Bakanlığının (Manavgat S Tipi Kapalı ve Açık Ceza İnfaz Kurumu Müdürlüğü) 02/01/2024 tarih ve 2024/7 Muh. sayılı yazısında, bahse konu su deposu yapılacak alanın yapımında; Manavgat S Tipi Kapalı ve Açık Cezavi yerleşkesinin ihtiyacı durumunda kullanılacak su hattının bağlantısının Antalya Belediye Başkanlığı Atık Su İdare Genel Müdürlüğü tarafından sağlanması koşuluyla söz konusu alanın Antalya Büyükşehir Belediye Başkanlığına tahsisinde sakınca olmadığının belirtildiği,

Anlaşılmıştır.

Buna göre; ilgi (b) İç Genelge ile tahsis işlemlerinin 2018/8 sayılı Cumhurbaşkanlığı Genelgesi uyarınca teşkil ettirilen Komisyondan alınacak izinden muaf tutulduğu dikkate alınarak, ilgi (a) yazı ile tahsisi talep edilen, Antalya İli, Manavgat İlçesi, Ilıca Mahallesinde bulunan mülkiyeti Hazineye ait 804 ada 2 parsel no.lu taşınmazın Adalet Bakanlığına tahsisli olan ve ekli krokide koordinatları belirtilen 6.279,64 m² lik kısmının Adalet Bakanlığına (Ceza ve Tevkifevleri Genel Müdürlüğü) olan tahsisinin kaldırılması ve **Manavgat S Tipi Kapalı ve Açık Ceza İnfaz Kurumu Müdürlüğü** 02/01/2024 tarih ve 2024/7 Muh. sayılı yazısında belirtilen hususlara uyulması, 2022/15 ve 2024/7 sayılı Cumhurbaşkanlığı Genelgeleri kapsamında tahsis amacına yönelik yatırımın yapılabilmesine ilişkin olarak alınması gereken tüm izinlerin Antalya Büyükşehir Belediyesince alınması, ticari amaçla kullanılmaması, üçüncü kişilere ticari ya da gayri ticari amaçla

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Doğrulama Kodu: 9B645EEF-7600-43E1-913E-37997DF54770

Doğrulama Adresi: <https://www.turkiye.gov.tr>

KEP Adresi : cevreseshircilikbakanligi@hs01.kep.tr

Bilgi için:Sema KARAMAN
Çevre ve Şehircilik Uzmanı



kullandırılmaması/devredilmemesi, tahsisli idarenin ilgili mevzuatları ile belirlenen ve alınması zorunlu olan gelirler dışında her ne ad altında olursa olsun herhangi bir ücret alınmaması, bu hususlar dışında ticari amaca yönelik ünitelerin söz konusu ve zorunlu olması durumunda ise **Hazine Taşınmazlarının İdaresi Hakkında Yönetmeliğin 67, 70 ve 73/A maddesine göre işlem yapılması kaydıyla**, 1 Numaralı Cumhurbaşkanlığı Kararnamesinin 101 inci maddesinin birinci fıkrasının (ç) bendi ile 5018 sayılı Kanunun 47 nci maddesi gereğince, Antalya Su ve Atıksu İdaresi Genel Müdürlüğü tarafından "**İçme suyu deposu alanı olarak kullanılmak üzere**" Antalya Büyükşehir Belediye Başkanlığı adına 2 (iki) yıl süre süreyle ön tahsisi uygun görülmüştür.

Belirtilen ön tahsis süresi içerisinde tahsis amacına uygun düzenlenmesi halinde ön tahsisin hizmet süresince devamı için kesin tahsise dönüştürülmesi yönünde Valilikten (Çevre ve Şehircilik İl Müdürlüğü) talepte bulunulacaktır. Aksi halde tahsis işlemi herhangi bir işleme ve yazışmaya gerek olmaksızın kendiliğinden kalkmış sayılacaktır.

Bilgi edinilmesini ve gereğini arz/rica ederim.

Arif Mesut ÖZDEMİR
Bakan a.
Daire Başkanı

Ek:

1 - Kroki (1 Sayfa)

2 - Görüntü

Dağıtım:

Gereği:

ANTALYA VALİLİĞİNE (Çevre, Şehircilik ve İklim Değişikliği İl Müdürlüğü)

Bilgi:

ADALET BAKANLIĞINA (Ceza ve Tevkifevleri Genel Müdürlüğü)
ANTALYA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞINA

Bu belge, güvenli elektronik imza ile imzalanmıştır.

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Doğrulama Adresi: <https://www.turkiye.gov.tr>

KEP Adresi : cevreseshircilikbakanligi@hs01.kep.tr

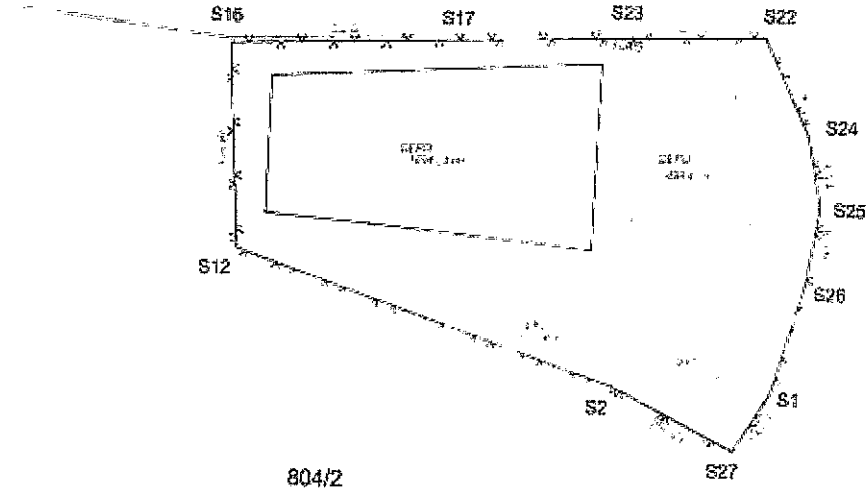
Bilgi için:Sema KARAMAN
Çevre ve Şehircilik Uzmanı



ANTALYA MANAVGAT İLÇESİ İLİÇA MAHALLESİ İÇME SUYU DEPO YERLERİ

0:1645

1/1 000



İl: ANTALYA
İlçe: MANAVGAT
Mahalle: İLİÇA
Ada/Parcel: 804/2

3° 30' (ETRF-88)

NoktaNo	Y	X	NoktaNo	Y	X
S25	621657 79	4078819 61	S28	621655 39	4078805 17
S24	621685 37	4078832 62	S1	621649 65	4078883 76
S22	621646 55	4078851 18	S27	621642 16	4078872 70
S23	621620 86	4078850 41	S2	621618 55	4078884 25
S17	621638 35	4078849 42	S12	621547 14	4078809 37
S16	621544 97	4078847 90			

Ada	Parçe	Noktalar	Alan/Alan
TAHİSİ		S17,S21,S22,S24,S25,S26,S1	5779 m²
		S27,S2,S12,S18	

KESİN İZİN TAAHHÜT SENEDİ
(Orman Kanununun 17 nci Maddesinin Üçüncü Fıkrasına İlişkin İzinler İçin)

Orbis Dosya No	: 05-14-06-00417	Dosya No	: 29-4082
Talep No	: TALEP2024-82189		
İzin Sahibi	: Antalya Su ve Atıksu İdaresi Genel Müdürlüğü		
TC Kimlik No/Vergi Kimlik No/MERSİS NO/DETSİS NO	: 98741390		
İzin Konusu	: Su Tesisi		
Orman Bölge Müdürlüğü	: Antalya	İli	: Antalya
Orman İşletme Müdürlüğü	: Taşagül	İlçesi	: Manavgat
Orman İşletme Şefliği	: Taşagül	Köyü/Mevkii	: Gündoğdu
Bölme No	: Taşagül Serisi; 110, 112 nolu bölmeler		
İzin Alanı (m2)	: 5.944,61 m ²		
İzin Süresi	: 49 yıl		
İzin Başlangıç Tarihi	: 10.09.2024	İzin Bitiş Tarihi	: 10.09.2073
Olur Tarihi ve Sayısı	: 10.09.2024 tarihli ve 12982275 sayılı Bölge Müdürlüğü Oluru		
Arazi İzin Bedeli	: 54.966,07 TL		(2024 Yılı Bedeli)(KDV hariç) %95 indirimli 2.748,30 TL tahsil edilecektir.
Teminat	: Alınmayacaktır.		

Not:Bedel bölümüne; bedelsiz izinlerde "bedelsizdir" ifadesi, bedellere tanınan kanuni istisnalar olması halinde ise bu husus ayrıca yazılacaktır. Arazi izin bedelinden ayrıca KDV alınacaktır.

6831 sayılı Orman Kanununun 17 nci maddesinin üçüncü fıkrası gereğince yukarıda belirtilen şekliyle Devlet ormanı üzerinde kesin izin verilmiştir. Bu taahhüt senedi, genel bütçe kapsamındaki kamu idareleri ile kamu kurum ve kuruluşlarında kurum yetkililerince onaylanmasını, gerçek ve özel hukuk tüzel kişilerin ise noter onayını takiben hüküm ifade eder.

1- İzin sahibi, tebliğ tarihinden itibaren en geç altı ay içinde; bir defaya mahsus olmak üzere tahakkuk eden ağaçlandırma bedelini, orköy bedelini, erozyon bedelini, depolama bedelini ve her yıl alınacak olan arazi izin bedeline ait ilk yıl arazi izin bedelini ilgili hesaplarına yatırmadan, teminat ve onaylı/noter onaylı taahhüt senedini orman idaresine vermeden saha teslimi yapılmaz, çalışmalara müsaade edilmez. Aksi halde verilen izin resen iptal edilmiş sayılır. İzin dosyasındaki mevcut koordinatlarına göre saha teslim alınmadan yapılacak çalışmalar Orman Kanununa göre suç sayılacaktır.

2- İzin sahibi, izin sahasını izin verilmiş maksadı dışında kullanamaz, izin dosyasında mevcut ve izne konu projedeki tesisler dışında tesis yapamaz, her ne sebeple olursa olsun yapılacak plan tadilatı ve ek tesisler için izin almak, vaziyet/imar planına uymak ve izin verilen ek tesisler için yürürlükteki yönetmelik hükümlerine göre ayrıca belirlenecek bedelleri ödemek, onaylı/noter onaylı ek taahhüt senedi ve teminat vermek zorundadır. İzin sahasındaki izinsiz yapılaşmalar Orman Kanununa göre suç sayılacaktır.

3- Müteakip yıllara ait arazi izin bedelleri, BAK (Bedel Artış Katsayısı) oranında artırılmak suretiyle tespit edilerek bildirimde gerek kalmaksızın izin başlangıç tarihinde her yıl defaten tahsil edilir.

İzin sahibinin kesin izinden vazgeçtiğini ve faaliyetini durdurduğunu orman idaresine yazılı olarak bildirdiği durumlarda orman idaresince sahanın geri teslim alındığı tarihte tahakkuk etmiş olan yıllık bedelin tamamı tahsil edilir, devam eden yıllara ait bedel tahakkuk ettirilmez.

Ancak;

a) İzin sahibinin kesin izin başlangıç tarihinden itibaren bir yıl içinde vazgeçmesi nedeniyle iznin iptal edilmesi ve yatırılan bedellerin ve teminatın iptal tarihinden itibaren en geç üç ay içinde iadesinin talep edilmesi halinde; izin verilen saha içinde hiçbir noktada çalışma yapılmamış olması ve izin öncesi doğal yapının bozulmamış olmasının heyetçe düzenlenecek raporla tespiti ve bölge müdürlüğünün onayı ile arazi izin bedeli dışındaki bedeller ve teminat faizsiz olarak iade edilir.

b) Verilen kesin iznin her ne şekilde olursa olsun izin sahibinin kusur ve/veya ihmalinin bulunmadığı durumlar nedeniyle iptal edilmesi ve iptalini müteakip altı ay içinde izin sahibinin talep etmesi halinde; izin verilen sahada çalışma yapılmadığının, izin öncesi doğal yapının

bozulmadığının heyetçe düzenlenecek raporla tespiti halinde, alınan tüm bedeller ve teminat faizsiz olarak iade edilir.

Kesin izin verilen sahanın bir kısmı üzerindeki iznin iptal edilmesi halinde alınan bedeller iade edilmez. Ancak arazi izin bedeli ve teminat yeni duruma göre güncellenir. İzin verilen alanın bir kısmının iptali halinde; iznin devam eden kısmı için arazi izin bedeli, kısmi iptalden önceki taahhüt senedinde belirtilen bedel üzerinden oranlanarak hesap edilir.

İzin süresinin bir yıldan az veya izin bitim tarihi belli olanlar için, arazi izin bedeli bu sürelere göre oranlanarak hesap edilir.

4- Bu taahhüt senedinde bahsedilen bedellerden zamanında ödenmeyenler için, izinlerin iptaline ilişkin hükümler saklı kalmak kaydıyla bildirimde gerek kalmaksızın 6183 sayılı Âmme Alacaklarının Tahsil Usulü Hakkında Kanununun 51 inci maddesinde yer alan gecikme zammı oranında faiz uygulanır. Kısmen ödeme yapılması halinde yapılan ödeme öncelikle faize mahsup edilir.

5- Teminat, bu taahhüt senedine uygun çalışmayı temin etmek amacıyla izin başlangıcında alınır.

Teminat olarak alınan değerler, teminat olarak kabul edilen değerler ile değiştirilebilir.

İznin, verilen sürenin dolması sebebiyle sona ermesi ve taahhüt senedi ile ilgili yükümlülüklerini yerine getirmesi halinde teminat faizsiz olarak iade edilir. Yürürlükteki yönetmelik ve bu taahhüt senedi hükümlerine uygun davranılmadığının tespiti üzerine iznin iptali halinde ise teminat irat kaydedilir. İrat kaydedilen teminat borca mahsup edilmez.

6- Kesin izin, talep edilmesi halinde Bakanlıkça devir edilebilir. Devir alanın, devir eden adına olan ruhsat, lisans, tahsis, kira sözleşmesi gibi belgenin devrini alması, taahhüt senedi ve teminat vermesi zorunludur. Aksi halde devir edenin orman idaresine karşı sorumlulukları aynen devam eder.

İzin devir edilmesi halinde arazi izin bedeli güncellenir.

7- İzin sahasındaki ağaçların kesilmesi gerektiğinde bu ağaçlar mahalli orman idaresince usulüne uygun damgalandıktan sonra kesilecek ve değerlendirilecektir. İzinsiz ağaç kesilmesi, izin sahası içinde de olsa Orman Kanununa göre suç sayılır. İzin sahası içerisindeki tali ürünler orman idaresince usulüne göre değerlendirilir.

8- İzin sahasında inşaat atıkları/artıkları bulundurulmayacak ve ormana dökülmeyecektir. İşin sonunda şantiye tesisleri sökülerek kaldırılacak, varsa inşaat atıkları/artıkları ile birlikte orman sınırları dışına taşınacaktır. Aksi halde bu işlemler orman idaresince yaptırılır ve masrafları yüzde elli zamlı olarak izin sahibinden tahsil edilir.

9- İzin verilen tesisin inşaatı esnasında çıkan kazı fazlası malzeme için orman alanı içinde izin alınması zorunludur. Bu alana dışarıdan getirilecek herhangi bir malzeme dökülmeyecektir. Kazı fazlası malzeme alanı, kademeli kapatma planına uygun ve ağaçlandırmaya hazır halde orman idaresine teslim edilecektir.

10- Kazı fazlası ve katı atık bertaraf tesis izinlerinde depolama kısımları için kademeli kapatma planına uygun çalışılacaktır.

11- İzin sahibi; çevre kirliliğini önleyici her türlü tedbiri almak, ÇED belgesi kapsamında taahhüt edilen hususlara uymak zorundadır. İnşaat çalışmalarının sona ermesine müteakiben kullanılmayacak alanlar usulüne uygun ağaçlandırılır.

12- İzin sahibi, kendisine teslim edilen orman alanında ve bitişiğindeki ormanların korunmasına, orman yangınlarına karşı gerekli önlemleri almaya ve orman idaresinin direktiflerine uymaya mecburdur. Bu konudaki kusur ve ihmalden dolayı muhtemel idare zararından orman idaresine karşı sorumlu olacaktır. İdarenin talebi halinde izin sahibi, her türlü makine ve emrinde çalışan işçi ile orman yangınlarının söndürülmesine yardımcı olacaktır.

13- İzin sahasında ve çevresindeki ormanlık alanlarda faaliyetinden dolayı doğacak her türlü zarardan izin sahibi sorumludur. Ayrıca, izin sahibiyle üçüncü kişi ya da kuruluşlar arasında sözleşmeye dayanılarak yapılan faaliyetlerden üçüncü kişi de izin sahibiyle birlikte sorumludur.

14- İzin verilen orman sahası ve üzerindeki tesisler Tarım ve Orman Bakanlığının izni olmadan başka şahıs ve kurumlara devredilemez ve işletmeye verilemez, maksadı dışında kullanılamaz.

Ancak; _Orman Kanununun 17 nci maddesinin üçüncü fıkrasına göre; sağlık, eğitim ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin dışındaki kafeterya, kantin, otopark gibi yan ünitelerin kiralanmasının, aynı fıkra kapsamında diğer izinlere konu tesislerin tamamının veya bir bölümünün kiralanmasının veya özelleştirme uygulamaları kapsamında işletme hakkının devredilmesinin, yap-işlet-devret modeli ile yaptırılmasının izin sahibi tarafından talep edilmesi



halinde heyetçe konu incelenir. İnceleme raporu düzenlenir. Uygun görülenlere mevzuata uygun olarak Bakanlıkça izin verilir.

Kiralanmasına izin verilmesi halinde izin sahibince; kiracı ile izin sahibi arasında imzalanan sözleşmenin noter onaylı bir sureti orman idaresine verilir, kira sözleşmesinde belirtilen tarihten itibaren kira bedelinin yüzde ellisi en geç bir ay içinde her yıl Genel Müdürlük özel bütçe hesabına yatırılır. Kira bedelinin aylık ödenmesi halinde aylık kira bedeli oniki ile çarpılır bulunan bedelin yüzde ellisi kira sözleşmesinde belirtilen ilk kira ödeme tarihinden itibaren en geç bir ay içinde ödenir. **Ancak sağlık, eğitim, yükseköğretim kurumu ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin dışındaki kafeterya, kantin, otopark gibi yan ünitelerin kiralanması halinde; harp, yangın, deprem, afet, salgın hastalık gibi mücbir sebeplerden kaynaklı kiralanın tesislerin işletilemediğinin belgelendirilmesi durumunda bu süreler için kira bedeli alınmaz.**

Kira sözleşmesinin sona ermesi halinde en geç bir ay içinde orman idaresine bildirilir. İzin alınmadan kiralanması veya kira sözleşmesi sona erdiği halde bildirimde bulunulmaması durumunda doğacak her türlü hukuki ve mali yükümlülüklerden izin sahibi sorumlu olacaktır. Yükümlülüklerin yerine getirilmemesi halinde verilen kiralama izni resen iptal edilir.

Sağlık, eğitim ve spor tesisi yapımı maksadıyla verilen izinlere konu asli tesislerin kiralanmasına, işletme hakkının devredilmesine, yap-işlet-devret modeli ile yaptırılmasına izin verilmez.

Sağlık Bakanlığına sağlık tesisleri, Milli Eğitim Bakanlığına eğitim tesisleri için kamu özel iş birliği modeli çerçevesinde yaptırılması maksadıyla verilen izinlerde ilgili bakanlıklarca yüklenici adına üst hakkı tesisi talep edilmesi, yüklenici tarafından izinli alana ait cari yıl ağaçlandırma bedelinin yatırılması ve Hazine ve Maliye Bakanlığınca iznin bulunduğu bölge müdürlüğü sınırları içinde izin alanının en az iki katı kadar alanın ağaçlandırılmak üzere Genel Müdürlüğe tahsis edilmesi halinde izin sahibi bakanlıkça bildirilen yüklenici adına izin süresi ile sınırlı olmak kaydı ile üst hakkı kurulmasına Bakanlıkça izin verilir. Yüklenici, taahhüt senedi hükümlerinden orman idaresine karşı sorumlu olduğuna dair ek taahhüt senedi verir.

İzin verilen alanda izin sahibi ile üçüncü kişi veya kuruluşlar arasındaki sözleşmeye dayanılarak yapılan faaliyetlerden izin sahibi üçüncü kişi ile birlikte sorumludur.

15- İzin sahasında izinsiz yapılaşmaların, proje ve maksat dışı tesis ve kullanımların olup olmadığı, gerektiğinde orman idaresi görevlilerince kontrol edilecektir. Kontrollerde izin sahibi, kiracı veya işleticiler orman idaresi görevlilerine gereken kolaylığı göstermek, istenen belgeleri ibraz etmek zorundadır.

16- İzin; izin süresinin dolması, izin sahibinin vazgeçmesi, izin sahibi gerçek kişi ise ölümü tüzel kişi ise tüzel kişiliğin herhangi bir sebeple sona ermesi, kanun, yönetmelik ve bu taahhüt senedi hükümlerine aykırı davranılması, orman idaresince yapılacak yazılı ihtar rağmen aykırı durumun giderilmemesi, izin verilmesine dayanak belgelerden en az birinin iptal edildiğinin tespiti halinde Bakanlıkça iptal edilir.

Ancak gerçek kişilerde izin sahibinin ölümü, altı ay içinde mirasçılarının talebi ile izin, kalan süre kadar mirasçılara veya temsilcileri adına yenilenebilir.

17- Kesin izin verilen alanda saha tesliminden itibaren üç yıl içinde yatırıma başlanılmaması, bu Yönetmelik ve taahhüt senedi hükümlerine aykırı davranılması halinde kesin izin iptal edilerek ilgiliye tebliğ edilir. Ancak, yatırıma başlanma süresi Tarım ve Orman Bakanlığının uygun gördüğü zaruri hallerde Bakanlık onayı ile iki yıl daha uzatılabilir.

18- İzin herhangi bir şekilde sona ermesi halinde; her türlü bina ve tesisler çalışır durumda, eksiksiz ve bedelsiz olarak, yapılacak tebligat tarihinden itibaren en geç üç ay içinde orman idaresine teslim edilir. Teslim işlemlerinden önce veya devir işlemleri sırasında tesislerin sökülmesi, yıkılması ve kullanılan malzemelerin kaçırılmasından izin sahibi sorumludur. Orman idaresinin teslim almak istemediği tesisler ise yapılacak tebligatı takiben altı ay içinde izin sahibi tarafından sökülerek orman sınırları dışına çıkarılır. Aksi halde bu işlemler orman idaresince yaptırılır ve masrafları yüzde elli fazlası ile izin sahibinden tahsil edilir.

Kesin izin süresi izin sahibinin talebi halinde uzatılabilir. Süre uzatımında arazi izin bedeli güncellenir ve kesin izin süresi, uzatmalar dahil toplam kırkdokuz yılı geçemez. Ancak izin maksat ve şartlarına uygun olarak faaliyet gösteren hak sahiplerinin izin süreleri; yer, bina ve tesislerin rayiç değeri üzerinden belirlenecek yıllık rayiç bedelle doksan dokuz yıla kadar uzatılabilir. Tesislerin orman idaresine devir işlemleri bu süre sonunda yapılır.

19- İzin sahasında eski ve tarihi eserlere rastlandığında izin sahibince çalışmalar durdurularak, eserler kazı yerinde muhafaza edilir, mahalli orman idaresine ve mülki amiriğe haber verilir.

20- Talep sahasının bir bölümünün veya tamamının 6831 sayılı Kanunun 16 ncı maddesi, 17 nci maddesinin üçüncü fıkrası ve 18 inci maddesine göre verilen bir başka izin alanına isabet etmesi halinde daha önce verilen izin sahibinin muvafakati aranır, muvafakat verilmemesi halinde İdarece resen izin verilebilir. Talep sahibince mevcut izinle ilgili gerekli tedbirler alınarak çalışılır. Talep sahibinden her türlü zarar ziyandan sorumlu olacağına dair ek taahhüt senedi alınır.

21- İzin verilen alanın bir bölümünün, zorunluluk halinde, yol, su, enerji nakil hattı gibi altyapı tesisleriyle Orman Kanununun 17 nci maddesinde yer alan tesislerin yapılması maksadıyla verilecek izin alanıyla kesişmesi ve izin sahibinin muvafakati olmaması halinde mevcut izin faaliyetinin engellenmemesi için gerekli tedbirler talep sahibi tarafından alınması kaydıyla orman idaresi resen izin verebilir. İzin sahibi hiçbir hak talebinde bulunamaz.

İzin verilen yol, su, enerji nakil hattı gibi altyapı tesis izinlerinin bir başka ruhsat sahibi tarafından kullanılmak istenmesi halinde izin faaliyetinin engellenmemesi şartıyla izin sahibinin muvafakati aranır, muvafakat verilmemesi halinde orman idaresince, orman alanlarının en az zarar görmesi maksadıyla bu altyapı tesislerinin kullanılmasına müsaade edilebilir.

Pasa döküm alanı, atık barajı gibi altyapı tesisi izinlerinde biriktirilen atık ve artıkların kamu kurum ve kuruluşlarının kendi projelerinde kullanılmak üzere talep edilmesi halinde orman idaresi izin sahibinin muvafakati aranmaksızın resen izin verir. Verilen bu yeni izin sebebi ile izin sahibi hiçbir hak talebinde bulunamaz.

İzin verilen tesis alanları ile yol, su, enerji nakil hattı gibi altyapı tesis alanlarından Tarım ve Orman Bakanlığı ve bağlı kuruluşlarının proje ve faaliyetlerinde kullanılması ihtiyacı hasıl olduğunda orman idaresi, izin sahibinin muvafakati aranmaksızın resen izin verir. Verilen bu yeni izin sebebi ile izin sahibi hiçbir hak ve bedel talebinde bulunamaz.

Tarım ve Orman Bakanlığı veya bağlı kuruluşlarının faaliyetleri sebebiyle karayolu istimlak sahaslarının içerisinde boyuna ve enine geçiş talep etmeleri halinde, bu talep Karayolu Genel Müdürlüğüne herhangi bir bedel talep edilmeksizin karşılanacaktır.

22- Orman alanı dışındaki demiryolu, otoyol, Devlet ve il yolları ile su isale hatlarının yapımında zorunlu olarak ortaya çıkan kazı fazlası malzemenin depolanması maksadıyla verilen izinler hariç, Orman Kanununun 17 nci Maddesinin Üçüncü Fıkrasının Uygulanması Hakkında Yönetmelik'e göre verilen izne konu tesislerin inşaatı esnasında ormanlık alandan çıkan orman toprağını da içeren kazı fazlası malzemelerin depolanacağı izin alanlarına, izin alanı dışından getirilecek herhangi bir malzeme dökülemez.

23- Enerji Piyasası Düzenleme Kurumu tarafından düzenlenmiş ön lisansla birlikte diğer kurum ve kuruluşlardan alınması gereken izin, onay, ruhsat, muvafakat ve yürürlükteki yönetmelikte istenilen diğer belgelerle kesin izin için müracaat edilmesi halinde; Bakanlıkça kesin izin verilebilir. Bu durumda verilecek kesin iznin süresi üç yıldan fazla olamaz, sahada çalışma yapılmasına müsaade edilmez.

24- Lisanssız elektrik üretim tesisleri ile lisanslı güneş enerjisine dayalı elektrik üretim tesislerine orman sayılan alanlarda izin verilmez. Ancak Yönetmeliğin 4 üncü maddesi kapsamında ve turizm maksadıyla izin verilen bina ve tesislerin çatı ve cepheleri ile baraj ve gölet rezervuar alanları üzerinde ve rezervuarlı veya regülatörlü hidroelektrik üretim tesisleri sahasları kapsamındaki su yüzeylerine kurulan enerji üretim tesislerine izin verilebilir. İzin verilen alan üzerinde kurulacak lisanssız elektrik üretim tesisi izinlerinden Yönetmeliğin 7 nci maddesinin birinci fıkrasında belirtilen bedellerin tamamı alınır.

25- İzin verilen yollar umumun kullanımına açık tutulacaktır. İzin verilen yollar çevreye zarar vermeyecek şekilde ekskavatörle yapılacaktır, yol yapımından çıkan malzeme ormana zarar vermeyecek şekilde izinli alanlara taşınacaktır. İzin sahibinin orman yollarından yararlanması halinde bu yollara verdiği zararlar izin sahibince karşılanır.

26- İzin sahibi, izin verilen sahada ve inşa edilen tesislerde her türlü güvenlik tedbirini almak zorunda olup, zarar görecekt üçüncü kişilere karşı sorumludur.

27- İhtilaf halinde; bu taahhüt senedi hükümlerine göre, bu taahhüt senedinde hüküm bulunmayan hallerde ise kanun, yönetmelik ve ilgili mevzuat hükümlerine göre hareket edilir.

28- Bu taahhüt senedinin uygulanmasında doğacak ihtilaflarda izne konu sahanın bulunduğu yer mahkemeleri ve icra daireleri yetkilidir.

29- Mevzuat değişikliği nedeniyle ortaya çıkabilecek yükümlülüklerden orman idaresi sorumlu tutulamaz.

30- Bu taahhüt senedindeki adres tebligat adresi olup izin sahibi adres değişikliklerini, değişikliği takip eden 10 iş günü içinde yazılı olarak orman idaresine bildirir. Aksi halde bu taahhüt senedinde yazılı adres tebligata esas adres kabul edilir.

31- İzin verilen alanın diğer kanunlar uyarınca izin, görüş, muvafakat alınması gereken yerlerden olması halinde izin sahibince gerekli izin, muvafakat ve görüşler alınarak çalışma yapılacaktır. Aksi halde doğacak her türlü sorumluluk izin sahibine aittir. Muvafakat ve görüşler idare tarafından talep edilmesi halinde ibraz edilecektir.

32- Bu taahhüt senedi; genel bütçe kapsamındaki kamu idareleri ile kamu kurum ve kuruluşlarına ait izinlerde kurum yetkilisince, gerçek ve özel hukuk tüzel kişilerine ait izinlerde ise noterden her sayfası onaylanmış olarak bir takım halinde en geç tebligat tarihinden itibaren altı ay içerisinde orman idaresine verilecektir.

33- Bu taahhüt senedinde yazılı hususlara aynen uyulacağını kayıtsız ve şartsız olarak kabul ve taahhüt ederim.

Özel Hükümler : (İznin yeri ve özelliğine göre orman idaresince gerekli görülen hususlar yazılacaktır.)

İşbu taahhüt senedi otuzüç (-33) genel, (.....) özel maddeden ibarettir./.../20

İzin sahibinin

Adı Soyadı/Unvanı :
TC Kimlik/Vergi No :
Adresi :
E-Posta Adresi :
Telefon Numarası :



Ümit DABAN
Genel Müdür Yardımcısı

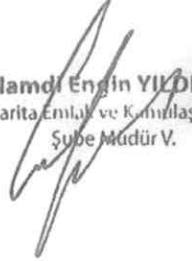


Mühür ve imza
(İzin sahibi)

Okan ERDOĞAN
Harita, Emlak ve Kadastro Teknikeri



Hamdi Engin YILDIRIM
Harita, Emlak ve Kadastro
Şube Müdürü V.



Levent HANSU
Etüt ve Plan Dairesi Bşk.





T.C.
ORMAN GENEL MÜDÜRLÜĞÜ
Antalya Orman Bölge Müdürlüğü



Sayı : E-67480784-020-12982275
Konu : Antalya Su ve Atıksu İdaresi Genel
Müdürlüğü Talebine ait olur (TALEP2024-
82189) (29-4082)

BAKANLIK MAKAMINA
KESİN İZİN OLURU

Dosya No : 05-14-06-00417
İzin Sahibi : ANTALYA SU VE ATIKSU İDARESİ GENEL MÜDÜRLÜĞÜ
İzin Konusu : SU TESİSİ
Toplam İzin Alanı(m²) : 5944,61 İli : ANTALYA
Orman Bölge Müdürlüğü : ANTALYA OBM İlçesi : MANAVGAT
Orman İşletme Müdürlüğü : TAŞAĞIL OİM Köyü/Mevkii : GÜNDOĞDU

Orman İşletme Şefliği ve Bölme Numaraları : TAŞAĞIL OİŞ: 110, 112

Lisans No :

İzin Süresi : 49 Yıl İzin Bitiş Tarihi :

İzin No	İzin Türü	Kullanım			Yeni İzin Alanı (m ²)	Yeni Talep Edilen Alan(m ²)
		Mevcut Alan(m ²)	Değişikliği Alan(m ²)	Değişikliği Alan(m ²)		
2024-7-196-009-00016	Su isale hattı				1.778,97	1.778,97
2024-7-196-097-00017	Su deposu				4.165,64	4.165,64
Toplam					5.944,61	5.944,61

Açıklama:Konu yerinde inceletirilmiş olup, Taşağıl Orman İşletme Müdürlüğü ile Bölge Müdürlüğümüz tarafından uygun görülen izin raporu, harita ve diğer eklerinin incelenmesi sonucunda; yukarıda mevkii, durumu, yüzölçümü ve kullanma amacı gösterilen orman parçasının, diğer konular bölümünde belirtilen şartlar dahilinde istenilen amaca uygun

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Doğrulama Kodu: 20382F30-27E5-4DA7-A467-A2B5A35A40D5

Doğrulama Adresi: <https://www.turkiye.gov.tr/ogm-ebys>

Sedir Mah. Vatan Bulvarı No:2 Muratpaşa/ANTALYA
Telefon No: 0 242 345 14 48 Belgegeçer No:0 242 345 14 56
İnternet Adresi : <https://www.ogm.gov.tr/antalyaobm>
KEP Adresi : ogm@ogm.hs01.kep.tr

Bilgi için:İlknur ÖZCAN
Bilgisayar İşletmeni



olarak kullanılmasında kamu yararı bulunduğu görüşüne varılmıştır. Bu nedenle belirtilen orman alanı üzerinde yerleşme ve çalışma şartlarını düzenleyen örneği ekte sunulan taahhütnamede yazılı koşullarla, diğer kanun hükümleri saklı kalması kaydıyla, 6831 sayılı Orman Kanununun 17 nci Maddesinin 3. fıkrası ve bu madde kapsamında düzenlenen uygulama yönetmeliği gereğince Aantalya Su ve Atıksu İdaresi Genel Müdürlüğü adına 4.165,64 m² su deposu ve 1.778,97 su isale hattı olmak üzere toplam 5.944,61 m²lik ormanlık alanda Su tesisi amacıyla olur tarihinden itibaren 49 yıl süreyle bedelli kesin izin verilmesini, Orman Genel Müdürlüğünün 30.06.2022 tarihli ve 4867883 sayılı emirleri ekindeki Bakanlık Makamının 21.06.2022 tarihli ve 2022/1 sayılı oluru ile Yetki Devri ve İş Bölümü Yönergesi gereğince Olur'larımıza arz ederim.

Sezai AKBULUT
Şube Müdürü

Uygun görüşle arz ederim.
Mehmet KARABACAK
Bölge Müdür Yardımcısı

OLUR
Zafer DERİNCE
Bölge Müdürü

Ek:

- 1 - Orbis - İzin Raporu Heyet Onayı
- 2 - Orbis - İzin Sahibi Daha Önceki Olurlar
- 3 - Orbis - Talep Haritası KML
- 4 - Orbis - İzin Raporu İşletme Müdürü Onayı
- 5 - Orbis - İzin Raporu Bölge Müdürlüğü Onayı
- 6 - Orman Kadastro haritası - 1
- 7 - Orbis - İzin Talebi Safahatı

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Doğrulama Kodu: 20382F30-27E5-4DA7-A467-A2B5A35A40D5

Doğrulama Adresi: <https://www.turkiye.gov.tr/ogm-ebys>

Sedir Mah. Vatan Bulvarı No:2 Muratpaşa/ANTALYA
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İnternet Adresi : <https://www.ogm.gov.tr/antalyaobm>
KEP Adresi : ogm@ogm.hs01.kep.tr

Bilgi için:İlknur ÖZCAN
Bilgisayar İşletmeni



**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

**ANTALYA DRINKING
WATER REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



İLBANK
TÜRKİYE'NİN YAPICI GÜCÜ

**ANNEX-4
CHANCE FIND PROCEDURE**



ANTALYA SU VE ATIKSU İDARESİ
GENEL MÜDÜRLÜĞÜ

ALDAŞ

Antalya Metropolitan Municipality

General Directorate of ASAT

Türkiye Earthquake, Floods and Wildfires Emergency Reconstruction (TEFWER) Project

Antalya Drinking Water Rehabilitation Project for Wildfire Areas

Chance Find Procedure

1 Scope

This Chance Finds Procedure (CFP) will be implemented for the Antalya Metropolitan Municipality General Directorate of ASAT, Antalya Drinking Water Rehabilitation Project for Wildfire Areas within the scope of TEFWER in order to manage any chance finds that may be encountered during the construction activities. The purpose of the CFP document is to:

- outline the applicable legislation and standards relevant to this procedure;
- define roles and responsibilities;
- define project commitments, operational procedures, training requirements and guidance relevant to this procedure; and
- define monitoring and reporting procedures.

Although there are no known archaeological sites or remains within the project area, it is considered that there may be a potential to encounter archaeological findings during the construction of the project. Activities which have high potential to lead to discover or adversely affect the archeological resources are;

- topsoil stripping
- excavation and earthworks

This CFP is prepared in order to provide information to the contractors and employees regarding the actions to be taken in case of an archaeological chance find discovery.

2 Legislation and Standards

Legislation and standards that apply to the project comprise the following:

- Word Bank Environmental and Social Standard (ESS) 8: Cultural Heritage
- applicable Turkish laws and national standards
- other commitments to and requirements of Turkish government authorities

- other industry guidelines with which the project has committed to comply

In Turkey, movable and immovable cultural and natural assets are protected and preserved by the Law on Preservation of Cultural and Natural Assets (Law No. 2863) published in the Official Gazette dated 23.07.1983 and numbered 18113. Law 2863 establishes legal protection for the following:

- all natural assets and immovable cultural assets constructed up until the end of the 19th century,
- any immovable cultural asset from after the end of the 19th century, identified by the Ministry of Culture and Tourism as an important asset worthy of preservation,
- all immovable cultural assets located within archeological sites,
- buildings/areas that have witnessed significant historical events during the National War and the foundation of the Turkish Republic and dwellings that have been used by Mustafa Kemal ATATÜRK, regardless of time and registration.

The Ministry of Culture and Tourism is the responsible body to take decisions for protection of cultural heritage in Turkey at the national level. As part of the Ministry, the High Commission for the Protection of Cultural Assets is responsible for protecting and restoring immovable cultural assets. Implementation of the decisions and regulations issued by the Ministry are undertaken by local administrations. At local level, there are Cultural Assets Protection Regional Boards defined by the Ministry of Culture and Tourism, which are responsible for preservation, registration and classification of cultural heritage within their respective jurisdictions. The relevant Regional Board for the project is the Antalya Cultural Heritage Protection Regional Board Directorate.” According to Law 2863, all the natural and cultural assets qualified for legal preservation are properties of the State. Therefore, regional boards have the power and authority to provide legal protection to the preservation sites and to approve or reject all the activities which have potential negative impacts on the preservation sites such as construction, demolition and excavation activities.

3 Roles and Responsibilities

Principal roles and responsibilities for the implementation of this procedure are outlined below.

Role	Responsibilities
Contractor - Project Manager	<ul style="list-style-type: none">• Overall responsibility for the development, review, approval and coordination of the numerous activities required to initiate, conduct and complete construction.• Ensure that this procedure is prepared, and updated as required, based on the activities undertaken as part of the project.• Ensure that adequate resources are made available to implement the procedures and guidelines outlined in this procedure.

Contractor - Environmental and Social (E&S) Expert	<ul style="list-style-type: none">• Initiation, development, implementation and coordination of the CFP during construction.• Ensure that adequate training is given to all site personnel and sub-contractors, covering the procedures and guidelines outlined in this procedure. Establish appropriate control procedures and conduct audits as necessary.• Consultation with and reporting to relevant government bodies in case of potential archeological chance finds.• Record all confirmed chance finds by filling up the “Chance Find Reporting Form” and maintain copies in a logbook. Ensure that the chance finds logbook is used and up to date.
Contractor - Site Manager	<ul style="list-style-type: none">• Day-to-day implementation of the provisions of the CFP in the field during construction.• Notify the E&S Expert regarding potential chance finds during construction.
Employees	<ul style="list-style-type: none">• Understand and comply with archeological chance finds procedures and guidelines outlined in this procedure.• Reporting of the potential chance finds to the Site Manager.

4 Impact Avoidance and Mitigation

In the event of an archaeological discovery, the following actions will be implemented:

- All staff involved in land clearance and excavation activities will take the responsibility for managing archaeological protection and will be trained in these aspects by the E&S Expert.
- In case any potential chance find is encountered, all construction activities will cease immediately in the vicinity of the chance find.
- The Site Manager will be contacted immediately. The discovered site location, the characteristics of the potential archaeological material and photos will be recorded by the Site Manager, who in turn will inform the E&S Expert.
- Antalya Museum Directorate will be notified at the latest within three days after the chance find is encountered. Contact details of the Antalya Museum Directorate are given below:
Address: Bahcelievler Neighbourhood, Konyaaltı Street, No: 88, 07050 ANTALYA
Telephone: 0242 238 56 88-89
E-mail: antalyamuzesi@kultur.gov.tr
- The site and its vicinity will be secured 24 hours a day against damage or loss, until inspection by the authority.

- The E&S Expert will fill up a “Chance Find Report Form” for each confirmed chance find and inform the Project Manager about the date that the construction work can resume, which is determined by the authorities concerning the conservation of the heritage.
- Further steps to be followed and proper plan to be implemented for the management of the finds (Changes in the layout, conservation, preservation, restoration and salvage) will be decided and reported in writing by the authorities in charge.
- Photographs of the potential artifacts that are likely to be encountered in the construction site are presented in the following pages to be used during the training of the relevant staff.

5 Verification and Monitoring

E&S Expert will record all cases of archaeological chance finds. He/she will fill up a “Chance Find Reporting Form” for each chance find confirmed by the authority and maintain copies in a logbook. A sample of a reporting form which can be used to record chance finds is included below. The chance find logbook will be summarized on an annual basis and records included in semi-annual monitoring reports to verify that correct management procedures have been followed. General Directorate of ASAT is the main authority to sign the sub-loan agreement and execute the sub-projects in this project. ALDAŞ is Supervision Consultant and responsible for the entire project as a consultant on behalf of ASAT. ALDAŞ manages the Project on behalf of ASAT in administrative and technical terms from the beginning to the end of the loan agreement. ILBANK will provide project management as Project Management Unit (PMU) within the scope of the Project. ILBANK will ensure supervision and monitoring of the entire period to ensure that the TEFWER ESMF, ILBANK’s ESMS and WB ESF are properly implemented. Within the scope of the Project, the construction works, and the operation stage will be carried out by the Contractor. Action items will be taken in cases of non-adherence to this CFP.

Antalya Drinking Water Rehabilitation Project for Wildfire Areas Chance Find Reporting Form	
REGISTRATION	
Name of recorder:	
Date and time of discovery:	
Site Name:	Coordinates X Y

Chance Find Procedure

Description of find:		
Photograph numbers:		
Estimated weight and dimensions:		
CONTACT PERSON		
Name/Title/Duty:		
Date and Time:		
Contact information:		
Details of conversation:		
DECISIONS		
Any protection measures to be implemented:		
Movable or immovable: If moved, please specify the new location.		
Further actions required:		
Recommence date and time:		
Notes:		
SUBMISSION		
Name:		Date:

**TÜRKİYE EARTHQUAKE,
FLOODS AND WILDFIRES
EMERGENCY
RECONSTRUCTION
PROJECT (TEFWER)**



**ANTALYA DRINKING
WATER REHABILITATION
PROJECT FOR WILDFIRE
AREAS**



ANNEX-5

**ASBESTOS MANAGEMENT
PLAN**



ALDAŞ

ASBESTOS MANAGEMENT PLAN

1. Introduction

The Antalya Metropolitan Municipality / Antalya General Directorate of Water and Wastewater Administration (ASAT) is responsible for avoiding, mitigating, or compensating any potential impacts of the Project activities on the workers/employees and other stakeholders. There is no planned work for asbestos pipes to be carried out within the scope of the sub-project. However, during the implementation of the sub-project, in case of the Antalya Metropolitan Municipality / Antalya General Directorate of Water and Wastewater Administration (ASAT) decides to carry out any repair, dismantling, demolition, maintenance, and removal activities for asbestos pipes or in case of accidental breaking of encountered asbestos pipes, this Asbestos Management Plan (AMP) will be applied that has been developed in accordance with the Regulation on Health and Safety Measures in Working with Asbestos (dated 25.01.2013 and numbered 28539) to guide the Antalya Metropolitan Municipality / Antalya General Directorate of Water and Wastewater Administration (ASAT).

2. Roles and Responsibilities

According to the Regulation on Health and Safety Precautions in Working with Asbestos, all asbestos-related works must be carried out only by licensed and authorized companies and licensed specialists/workers/employees. Therefore, any asbestos-related work shall be contracted by the Antalya Metropolitan Municipality / ASAT with a subcontractor (asbestos-related works' subcontractor is the Employer of this AMP) with the specified qualifications. In this regard, the Employer (asbestos-related works' subcontractor is the Employer of this AMP) would train all workers/employees involved in supervision and construction works regarding the procedure in case of any planned or unplanned work (including accidental asbestos pipe breakings) on asbestos pipes, and necessary personal protective equipment (PPE) will be available for use when needed. The Antalya Metropolitan Municipality / ASAT and all the contractors are to comply with the procedure during the sub-project construction activities. No financial burden can be imposed on the workers/employees for the trainings carried out and the mitigation/remediation measures applied to the PPEs provided.

3. Asbestos Management Process and Procedure

The step-by-step process and procedure to be followed are provided below:

- a) Risk Assessment: The Employer is obliged to carry out a risk assessment, taking into account the type and physical properties of asbestos and the degree of exposure of the workers/employees where there is a risk of exposure to asbestos dust. Where there is a risk of exposure to asbestos dust, the employer is obliged to carry out a risk assessment before work commences, taking into account the type and physical characteristics of asbestos and the degree of exposure of workers/employees. The views of workers/employees or their representatives shall be taken during the risk assessment.

b) Notification with Work Plan: The Employer is obliged to prepare a work plan before starting these works and notify the related Provincial Directorate of Labour and Employment Institution of the work plan. The notification includes the following:

- Commercial name and address of the workplace,
- The type and amount of asbestos to be removed,
- Works to be done and procedures/processes to be applied during works,
- Number of workers/employees,
- Starting date and the estimated duration of work,
- Asbestos removal specialist certificate,
- Asbestos removal worker/employee certificate.

The work plan specifies the measures to be taken in the working area within the scope of the risk assessment of the health and safety of the workers/employees. The working plan includes the following:

- Type of work and estimated duration and place of the work,
- The method to be used for the removal of asbestos-containing materials,
- Features of equipment used in asbestos dismantle, repair, maintenance, and removal work,
- Protection of workers/employees from asbestos materials,
- Protection measures of other persons in or near the working environment during the work,
- Removal of asbestos and/or asbestos-containing materials from buildings and facilities prior to demolition, except where the retention of asbestos and/or asbestos-containing materials does not pose a greater risk.

c) Dismantling, Repair, Maintenance, and Removal Works: Before starting the mentioned works, the Employer inspects the sub-project area, existing structures, and infrastructure plans to identify asbestos-containing material locations.

- Asbestos-related works are carried out by the asbestos removal workers/employees, under the supervision of an asbestos removal specialist. An asbestos removal worker/employee defines as a worker/employee having vocational training certificate for asbestos dismantling, repair, maintenance, and removal works or who has completed the training program established by the commission established by the Ministry of Labour and Social Security and has received a course completion certificate. An asbestos removal specialist defines as the person given responsibility by the Employer during the implementation of the procedures specified in the Regulation on Health and Safety Measures in Working with Asbestos (dated 25/01/2013 and numbered 28539), who has completed the training program established by the commission established by the Ministry of Labour and Social Security, and who has received a course completion certificate after being successful in the exam.

- Asbestos measurement and sampling are carried out by accredited and authorized laboratories. While determining the sampling places, the opinions of the workers/employees or their representatives are also taken. The sampling time is regulated to determine the worker's/employee's exposure over eight (8) hours of work (one (1) shift) by measurement or time-weighted calculation. The Employer ensures that the asbestos concentration in the air the workers/employees are exposed to during the work does not exceed 0.1 fibre/cm³ of the eight-hour time-weighted average value.
- d) End of Work Notification: When the asbestos dismantling, repair, maintenance, and removal works are completed, the Employer or its representatives shall provide a document containing the measurement results indicating that there is no risk of exposure to asbestos dust in the workplace.

The report containing the documents and measurement results prepared by accredited and authorized laboratories will be submitted to the Provincial Directorate of Labour and Employment Agency by the Employer or its representatives.

4. Asbestos Exposure Mitigation Measures and Over-exposure Action Plan

- a) Asbestos Exposure Mitigation Measures: The following measures should be taken to minimize the exposure of workers/employees to dust from asbestos materials:
- Necessary markings should be made in the working areas and warning signs should be placed.
 - Unauthorized workers/employees should be prevented from entering the work area.
 - Smoking-prohibited areas should be determined.
 - The places reserved for eating and drinking should be chosen outside the places where there is a risk of contamination with asbestos dust.
 - Workers/employees should be provided with appropriate personal protective equipment (PPE) such as protective clothing, disposable clothing, gloves, safety glasses, respirators and their appropriate use must be strictly supervised.
 - PPE should not be taken out of the workplace. Protective clothing should be cleaned in the workplace or where cleaning work is carried out and removed from the workplace only in closed containers.
 - Protective clothing and workers'/employees' own clothing should be kept in separate places.
 - Hand and face washing, and shower places should be provided for workers/employees in dusty work.
 - PPE used should be stored in specially designated places, checked, and cleaned after each use, repaired, and maintained.
 - Work should be carried out with as few workers/employees as possible.

- The working area should be isolated so as not to produce asbestos dust. If this is not possible, it should be designed in such a way as to prevent the spread of dust to the environment. In order to prevent formation of asbestos dust or mixing of dust into air, the working area should be sprayed with water at regular intervals.
 - Cleaning and maintenance of the equipment used in places having a risk of asbestos exposure should be to be carried out regularly and effectively.
 - Asbestos materials should be transported in suitable sealed packages and stored separately from other materials.
 - Wastes containing asbestos should be collected immediately, labelled using appropriately and removed from the workplace as soon as possible in sealed packages and disposed of in accordance with the relevant legislation.
 - During dismantling, demolition and removal works, people living in the vicinity should be warned against asbestos risk, removed from the work area and/or protective equipment should be provided.
 - Storage areas for asbestos disposal should be determined by modelling that takes into account the prevailing winds in the city and excludes residential areas from the impact area of possible dusting and fibre transport.
 - Contaminated clothing and protective equipment should be disposed of in the same way as other asbestos-containing materials. Worksites should be provided for washing of workers/employees.
 - Ensure that they are aware of the need to wash before eating, drinking, or smoking and before returning home to minimise the risk of spreading asbestos fibres outside the worksite.
 - Access to areas with piles of construction rubble, demolition sites and waste sites should be restricted. Children in particular should be kept away from these areas.
- b) Over-exposure Action Plan: The following measures are taken in case of a limit value breach:
- The reasons for exceeding the limit value are determined and the necessary measures are taken immediately to reduce the asbestos concentration below 0.1 fibre/cm^3 . Work cannot be carried out in the affected area until appropriate measures are taken to protect workers/employees.
 - Whether the measures taken are sufficient or not is determined by ambient air asbestos concentration measurements.
 - In cases where it is not possible to reduce the exposure with other measures and it is only possible to comply with the limit value by using respiratory system protection, the workers/employees with the protector cannot work continuously. The maximum time each worker/employee will work is determined in advance and cannot be exceeded.
 - Appropriate rest breaks are given during the work using protective equipment, considering the physical conditions, climatic conditions, and the views of the workers/employees or their representatives.

5. Health Surveillance

An occupational physician / a workplace doctor will be appointed to provide health services at the workplace to protect and improve the health of workers/employees and to provide diagnosis and treatment services quickly in case of possible occupational diseases in line with the national legislation. His or her duties are listed below.

- Performs general examinations and tests, especially respiratory system examinations, and repeats lung radiographs at appropriate intervals if necessary.
- Makes recommendations to the employer on protective and preventive measures according to the results of the examinations and tests.
- Provides information to workers/employees about health assessments that should be carried out after the end of exposure.

6. Record Keeping

The Employer performing the asbestos dismantling, repairing, maintaining, or removal work or subcontracts the work; keeps and maintains records indicating the work performed by those involved in the work, the duration of the work, and the level of exposure. Any health personnel, health institution, or health organization can examine these records upon request. Workers/employees can get a copy of their records. Workers/employees or their representatives may receive general information about records anonymously. Records are retained for at least 40 years after exposure to asbestos dust ceases. In case of transfer of the workplace with its workers/employees, the records are delivered to the transferred business. In case of closure of the workplace, the records shall be delivered to the Provincial Directorate of Social Security Institution.

7. Reporting

In case of any asbestos findings in the work area, the Contractor shall immediately notify ALDAŞ INC. and ALDAŞ INC. shall immediately notify The Antalya Metropolitan Municipality / Antalya General Directorate of Water and Wastewater Administration (ASAT) and ILBANK via telephone or e-mail within 24 hours. ILBANK shall inform the World Bank within 48 hours for serious incidents and within 10 days for other incidents in accordance with ESIRT deadlines. The root cause analysis and improvement action plan to be prepared by the Contractor shall be reviewed by ALDAŞ INC. and submitted to ILBANK and will be submitted to the World Bank by ILBANK within 30 days.