SEMI-ANNUAL ENVIRONMENTAL MONITORING REPORT

#14 Semi-annual Report

(Reporting Period: July-December 2024)

Loan Number: 3441

Project Number: 43405-028

GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM

(TRANCHE 6)

(FINANCED BY THE ASIAN DEVELOPMENT BANK)

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For: The Ministry of Regional Development and Infrastructure of Georgia and

the Asian Development Bank

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ABBREVIATIONS

ADB Asian Development Bank
CC Construction Company

CCTV Closed-Circuit Television Video

CAP Corrective Action Plan
DC Design Consultant

DPEPSA Department of Permits, Environmental Protection and Social Affairs

DFPMD Donors Funded Project Management Department

EA Executing Agency

EARF Environmental Assessment and Review Framework

EHS Environmental Health & Safety
EIA Environmental Impact Assessment
EIP Environmental Impact Permit

EMP/ SSEMP Environmental Management Plan/ Site-Specific Environmental

Management Plan

ERP Emergency Response Plan

ES/ SES Environmental Specialist/ Senior Environmental Specialist

GoG Government of Georgia

GRC Grievance Redress Committee
GRM Grievance Redress Mechanism

IA Implementing Agency

IPMO Investment Program Management Office

IEE Initial Environmental Examination

LLC Limited Liability Company
MFF Multi-tranche Financing Facility

MEPA Ministry of Environmental Protection and Agriculture MRDI Ministry of Regional Development & Infrastructure

NEA National Environmental Agency

NCN Non-compliance Notice
OJSC Open Joint Stock Company

RE Resident Engineer

SAEMR Semi-Annual Environmental Monitoring Report

SC Supervision Consultant

Tranche 6

USIIP Urban Sector Improvement Investment Program
UWSCG United Water Supply Company of Georgia

WHO World Health Organization

WS Water Supply

WSS Water Supply & Sewerage
WWTP Waste Water Treatment Plant

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I. INTRODUCTION

1.1 Preamble

- This report represents the Semi-annual Environmental Monitoring Review (SAEMR) for the Urban Services Improvement Investment Program (USIIP), Tranche 6 and describes the period of July-December 2024. USIIP/T6 is financed by the ADB through its Multi-tranche Financing Facility (MFF).
- 2. This report is the 14Th Environmental Monitoring Review (EMR) of Urban Services Improvement Investment Program /Tranche 6.

1.2 Headline Information

Tranche 6 of USIIP includes the following sub-projects:

- 3. Construction of Water Supply and Waste Water Systems in Marneuli and Construction of Waste Water System and Collector in Bolnisi (MAR-01). The contract for implementation of the MAR-01 sub-project was signed in September 2022. Initial project completion date was March 2024, but the construction works have not been completed and currently are continued under the Government financing as MFF was closed in March 2024. The new project completion date is March 2025.
- 4. Construction of Waste Water Treatment Plant for Marneuli and Bolnisi in Marneuli (MAR-02). The contract for implementation of the MAR-02 sub-project was signed in October 18, 2019. Initial project completion date was March 2024, but the construction works have not been completed and currently are continued under the Government financing as MFF was closed in March 2024. The new project completion date is June 2025.
- 5. The Construction of Water Supply System in Chiatura (CHI-01). The contract for construction of the Chiatura Water Supply Sub-project (CHI-01) was signed in August 21, 2017 with "Akkord Industry Construction Investment Corporation" OJSC (Azerbaijan). Civil works for Section 1 of the CHI-01 sub-project were successfully completed within the contractual timeframe, 30 June 2021 and are now under operation by the local service center of Chiatura.
- 6. For Section 2 of the CHI-01 sub-project, the contract period was extended until April 5, 2022. However, these works remain incomplete, as the works were suspended by contractor in April 2022 and "Akkord" has stopped construction activities and abandoned the site. Approximately 43% of the Section 2 works still need to be finalized, following works are incomplete under Section 2 of the Chi-01 sub-project that steel need to be finalized:

Construction of water supply system for Avarioni & Safari areas sub-component:

Construction of Avarioni Reservoir:

- Avarioni reservoir fencing to be done;
- Mechanical and Electrical works to be completed;
- Guard house to be constructed:
- Some house connection work remains to be done.

Construction of BISI Pumping Station

- Bisi pumping station to pump water from Bisi reservoir to Avarioni reservoir is incomplete. The pump house building foundation slab was laid but other works not done, such as instolation of the booster pump for providing water in two houses near Navradzeti reservoir.
- Purchase of generators for BISI pumping stations to ensure smooth operation of PS.
- 7. A new tender under CHI-01 sub-project will be issued in the Q1 of 2025 to complete these remaining tasks with funding provided through the central government budget. The Tender Documentation are under finalization by the Supervision Company HILL. UWSCG is responsible for ensuring the completion of the CHI-01 sub-project.
- 8. Environmental Due Diligence Report (EDDR) was prepared by UWSCG/IPMO presenting the assessment of potential environmental impacts and risks of the changes in scope of works for Rehabilitation of the Chiatura Water Supply Project. Measures are presented in this report to avoid, minimize, mitigate or compensate for the adverse impacts. During the preparation of the DDR, the Initial Environmental Examination (IEE) and Environmental Management Plan (EMP), both prepared in June 2017, were used as the baseline documents. Since the project scope has not changed significantly and mainly involves completing unfinished work within the CHI-01 framework, the potential environmental risks and mitigation measures remain unchanged. However, the document has been reviewed and updated to reflect all relevant issues including project duration, and others. EDDR will be attached to tender documentation.
- 9. During the reporting period, only minor civil works were conducted within the USIIP/T6 under the MAR-01 (Construction of Water Supply and Waste Water Systems in Marneuli and Construction of Waste Water System and Collector in Bolnisi) and active construction works were carried out under the MAR-02 (Construction of Waste Water Treatment Plant in Marneuli) sub-project. *There*fore, only activities related to these sub-projects are included in this report. All detailed information is provided in the sub-chapters 2.3.2 and 2.3.3 and Tables 9-14 below.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

- 10. The Urban Services Improvement Investment Program was developed as the Government's response to the lack of adequate and/or safe water supply, sewerage and sanitation in urban areas of Georgia. This is intended to optimize social and economic development in selected urban areas through improved urban water and sanitation services, and is financed by the ADB through its Multi-tranche Financing Facility. The Ministry of Regional Development and Infrastructure is the Executing Agency and the "United Water Supply Company of Georgia", LLC is the Implementing Agency of the Investment Program. UWSCG is a 100% state-owned company.
- 11. The Investment Program improves infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply and/or sanitation) in one town. Sub-projects rehabilitate existing infrastructure and/or create new and expanded infrastructure to meet the present and future demand. Water supply improvements include source augmentation and head works, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works include sewer network, pumping stations, main collectors and waste water treatment plants.

12. Tranche 6 of the Investment Program includes:

- N Construction of Water Supply and Waste Water Systems in Marneuli and Construction of Waste Water System and Collector in Bolnisi (MAR-01);
- N Construction of Waste Water Treatment Plant for Marneuli and Bolnisi in Marneuli (MAR-02);
- N Construction of Water Supply System in Chiatura (CHI-01).
- 13. Construction of Water Supply and Waste Water Systems in Marneuli and Construction of Waste Water System and Collector in Bolnisi (MAR-01 LOT-01; LOT-02; LOT-03 and LOT-06): The contract for the implementation of the Lot-01, Lot-02, Lot-03 and Lot-06 under MAR-01 has been awarded to China Geo-engineering Corporation (CGC) (Peoples Republic of China) in September 2022. The project was initially scheduled for completion in March 2024 (the MFF closing date); however, as previously mentioned, the construction works were not completed by the deadline and the completion date has been extended to March 2025, under Government Financing. A brief description of LOT-01, LOT-02, LOT-03, and LOT-06, along with the scope of works, is provided below. Detailed information and percentage of implemented works are provided in chapter 2.3.2 below.

Lot 1: Marneuli city is divided in 6 zones. Zone 1 under LOT-01 mainly includes remaining house connection work. The components of the sub-project that will involve civil works under LOT-01 are as follows:

- Construction of new distribution water system 63 mm PE 100 pipes (4.6 km),
- Commission new distribution 39.5 KM laid earlier
- Approximately 44,1km road reinstatement works¹

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¹ Is it simple overlay of the road no new road will be constructed

- Lot 2: The geographical boundary for Lot 2 covers zone 2, 3 & 6 of Marneuli. It provides for both water supply & sewerage lines. It is in Northeast directions. Sewer pipeline and water supply pipeline are to be laid. In parallel with the construction works, testing will be carried out on the previously laid water supply and sewage lines by AKELIK GROUP OJSC to ensure its commissioning. The civil works under LOT-02 comprise mainly the following items:
 - New distribution water system 40,16 km
 - New sewers lines 34,5 km
 - Rehabilitation of existing sewers 3.9 km
 - New sewage pumping stations 2
- **Lot 3:** The geographical boundary for Lot 3 covers zone 4 & 5 of Marneuli. It covers both water supply & sewerage lines. It is in West direction. Sewer pipe and water supply pipes are to be laid. In parallel with the construction works, testing will be carried out on the previously laid water supply and sewage lines by AKELIK GROUP OJSC to ensure its commissioning. The civil works under LOT-03 comprise mainly the following items:
 - New distribution water system (44,3 km)
 - Construction of new sewer lines (49.0 km)
 - Construction of new sewage pumping stations (3 no.)
- **Lot 6:** It includes Conclusion of new pumping station at Kolagiri and one booster station at Jandhari with mechanical, electrical and SCADA works; Rehabilitation of bore wells at Kolagiri; Finalization of new Reservoir at Jandhari and construction of city reservoir; Transmission line DCI pipes 700 mm, 600 mm & 400 mm pipes from Kolagiri to City reservoir and city reservoir to Jandhari. Also, a chlorination facility is to be installed near Jandhari reservoir. The works under LOT-06 comprise mainly the following items:
 - Three new transmission mains DCI pipes 250 mm to 700 mm (total length almost 15.9 km)
- **14. Post Construction Environmental Audit Report under MAR-01** (LOT-01, LOT-02, LOT-03 and LOT-06) sub-project will be prepared in April 2025 by the Supervision Consultant HILL and submitted to UWSCG for approval.
- 15. Construction of Water Supply and Sewerage System in Marneuli and Sewerage System and Collector in Bolnisi, Lot 4 and lot 5. The contract for the implementation of Lot-O4 and Lot-o5 under MAR-01 sub-project has been awarded to POLAT Yol Yapi Sanayi ve Ticaret Anonim Sirkei (Turkey). Physical works has started in lot 4 and lot 5 in October 2022. The project completion date was set for March 2024, which coincided with the MFF closing date. However, the civil works were not completed by the deadline and continued until the end of November 2024, under government financing. All construction works were 100% completed in November 2024. A brief description of LOT-04, LOT-05, and the scope of works are presented below.
 - **Lot 4:** It covers sewer network in Bolnisi city. Bolnisi is distinctly separate habitation and is about 22 km from Marneuli. new sewer lines are to be laid under LOT-04. Earlier laid sewer lines by AKELIK GROUP OJSC would also need to be tested and commissioned. The components of the subproject that will involve civil works under LOT-04 are as follows:
 - Construction of new sewer lines (28,6 km)
 - Rehabilitation of existing sewer lines (7,5 km)

- **Lot 5:** Sewerage Interceptor (Collector) from Bolnisi to Marneuli. It includes one sewage pumping station to be laid. Earlier laid sewer lines by AKELIK GROUP OJSC would also need to be tested and commissioned. The works under LOT-05 comprise mainly the following items:
 - Construction of new sewerage lines (15, 8 km).
 - Rehabilitation of earlier laid sewers (7,9 km)
- 16. The Post Construction Environmental Audit Report under MAR-01 (LOT-04 and LOT-05) subproject was prepared in December 2024 by the SC HILL and submitted to the UWSCG for its approval (please see Annex E of this report). The main findings of the PCEAR is provided in the Table 1 below:

Table 1: Summary information of post-construction environmental audit

#	Non- compliance	Corrective action	Construction Site	Terms of accomplishm ent	Respons ibility	Status By the December 2024
		Bol	nisi Pumping Stations			
1	There are no warning and information signs on entrance gates of the Pumping Stations (Photo N1)	Proper Warning and information signs should installed on entrance gate	Photo N1	End of March 2025	UWSCG	Not completed by the end of December 2024
2	Deep and unprotected pits, both inside (Photo N2) and outside (Photo N3) the pumping station building	visible signs/safety tapes, trench side fences or proper cover should be installed around deep	Photo N2 Photo N3	Mid. of March 2025	UWSCG	Not completed by the end of December 2024

#	Non- compliance	Corrective action	Construction Site	Terms of accomplishm ent	Respons ibility	Status By the December 2024
		Stations				
3	A small amount of construction waste remains on the site, both inside (Photo N5) and outside (Photo N5) the pumping station building.	Construction waste should be removed from the territory and disposed adequately	Photo N4 Photo N5	End of December 2024	UWSCG	Completed, removed, end of December 2024 Completed, removed, end of December 2024, Photo N1
		Con	struction of Waste Water Colle	ector in Bolnisi		
4	Un-fenced /unsecured pipeline cross river near resident areas (next to PS #2), Photo N6	The sewage collector across the river should be properly fenced off, as children may use the pipeline as a playground or bridge, posing a potential health risk	Photo N6	End of February 2024	UWSCG	Not completed by the end of December

- **17. Construction of Waste Water Treatment Plant for the Cities of Marneuli and Bolnisi** in Marneuli (MAR-02). The project comprises of the construction of new Wastewater Treatment Plant in Marneuli with the capacity of 9,931 m³/day.
- 18. The contract No UWSCG-ICB-MAR-02-2019 was signed in October 18, 2019 with Joint venture of Toshiba Water Solutions Pvt. Ltd and IN-SI LLC (JV partner) (India/Georgia). The scheduled completion date was May 2021, Completion date has been proposed to be extended by SC. Revised completion date was March 2024. As it was already mentioned above construction works have not been completed yet and will be continued until the end of June 2024. Currently works are ongoing under the government financing as MFF was closed in March 2024.
- **19. Post Construction Environmental Audit Report under MAR-02 sub-project** will be prepared in July 2025 by the SC HILL and submitted to the UWSCG for its approval.
- 20. Construction of Water Supply System in Chiatura (CHI-01). The contract for construction of the Chiatura Water Supply Sub-project was signed on August 21, 2017 with "Akkord Industry Construction Investment Corporation" OJSC (Azerbaijan), the initial completion date was April 15, 2019. The original date for the defect notification was April 14, 2020. Subsequently the works were divided in two sections, section 1 comprised original contract works and section two included: generators for pumping stations, additional water connections, fencing etc. The Contract time for section 1 was extended up to 30 Jun 2021 and these works are taken over and now operated by local service center. Contract time for Section 2 works was extended up to 5 April 2022. However, section 2 works are incomplete, and the Contractor has stopped and abandoned site. More detailed information is provided in para 5-7 above.
- 21. The work under the CHI-01 project comprises the rehabilitation and construction of the water supply network, transmission pipeline and Reservoirs and pumping stations. In particular, Chi-01 project consists of the following works. All detailed information about the current status and remained works are presented in cub-chapter 2.3.1 and tables 5.6.7, and 8 below.
 - 1. The rehabilitation of the existing WS system by replacing the old pipework;
 - 2. Connection of the new pipes to the existing pipes;
 - 3. Rehabilitation of the reservoirs:
 - Bisi (3,000 m³). Through a central pumping station, it supplies water to all Chiatura streets, except for Pataridze and Sopromadze streets, additional pumping station (under construction in the reservoir area) and the addition of 200 meters of network. (60% of the work is completed).
 - Memorial (1,000 m³),
 - Lezhubani (3,000 m³),
 - Rustaveli (350 m³),
 - Perevisa (50 m³)
 - Village Perevisa (50 m³)
 - Tehisa (1,000 m3)
 - Navardzeti (350 m³)
 - **4.** Construction of two new reservoirs one in Sachkhere and another one alongside the existing Bisi reservoir Avarioni 1000 m3.;
 - **5.** Rehabilitation of Pumping Stations one in Lezhubani (170 m3/h) and two in Perevisa (105 m3/h):
 - 6. Construction of new transmission lines to the reservoirs Sachkhere Bisi and Perevisi – Tehisa (with the exception of the one going from Central Pumping Station (CPS) to Perevisi reservoir);

7. New water supply wells in the neighbouring town of Sachkhere

Post Construction Environmental Audit under CHI-01 sub-project

- 22. The Post-Construction Environmental Audit Report for the CHI-01 sub-project was prepared in March 2024 by the SC HILL and afterwards approved by the UWSCG. The audit identified several major non-compliances that remain unresolved, including the need to properly fence the Avarioni reservoir sites and install appropriate warning signs, as well as the requirement to fill and secure the trenches at the BISI Pumping Station with proper fencing along their borders. The report outlines the necessary corrective actions, suggested timelines for their implementation, and the progress made thus far. As noted earlier, the UWSCG plans to complete the Chiatura Water Supply project with funding from the Government Budget by the end of 2025, and a new tender for this work will be announced in Q1 of 2025. Environmental DDR was prepared for the above mentioned tender. More detailed information is provided in paragraph 8 above. The Post-Construction Environmental Audit Report will be updated accordingly in December 2025.
- **23.** A summary of the Post-Construction Environmental Audit and the key findings for the CHI-01 sub-project is provided in the table below:

Table 2: Summary information of post-construction environmental audit, CHI-01 subproject, April 2024

#	Non- compliance	Corrective action	Construction Site	Terms of accomplishment Responsibility	Progress of Corrective Actions
			Avarioni Reservo	oir	
1	Avarioni Reservoir, uncontrolled disposal of construction waste were fixed.	Construction Waste must be collected and disposed from the project area.	Photo N1	UWSCG End of June 2024	Completed June 2024, Photo N1
2	Avrioni Reservoir Oil spill Fuels and lubricants spills to be eliminated	Containers with fuel/lubricant should be managed properly (stored at the proper organized place with concrete floor and roofing) to	Photo N2	UWSCG End of June 2024	Completed June 2024 No traces of leakage were identified in the project area

#	Non- compliance	Corrective action	Construction Site	Terms of accomplishment Responsibility	Progress of Corrective Actions
		avoid leakage and ground contamination.			
3	Avarioni Reservoir surplus waste soil soil were piled up on the construction area	Avarioni Reservoir surplus waste soil should be removed completely removed from the disposed area	Photo N3	UWSCG End of June 2024	Completed June 2024, Photo N3
4	Prevent access of public to the reservoir site - The fence of the reservoir should be done properly and equipped with Signs, information and warnings	Reservoirs sites should be properly fenced equipped with proper warning signs	Photo N4	UWSCG	Not yet completed ² A new tender will be issued to complete these remaining tasks, with funding provided through the central government budget. UWSCG is responsible for ensuring the completion of the CHI-01 sub-project.
5	There are deep Trenches around the Avarioni Reservoir without Protection	Trenches on the Avarioni Reservoir should be filled or fenced off their borders.	Photo N5		

 2 At this stage, it is impossible to indicate the exact deadline for improvement, as soon as the date is known, this table will be updated

#	Non- compliance	Corrective action	Construction Site	Terms of accomplishment Responsibility	Progress of Corrective Actions
		E	BISI Reservoir and Pumpi	ng Station	
6	Open trenches of the BISI Pumping Station are observed	Trenches on the BISI reservoir should be filled or fenced off their borders.	Photo N6	UWSCG	Not yet completed A new tender will be issued to complete these remaining tasks, with funding provided through the central government budget. UWSCG is responsible for ensuring the completion of the CHI-01 sub-project.
7	Uncontrolled disposal of construction waste were outside the BISI reservoir was fixed.	Construction Waste must be collected and disposed from the project area.	Photo N7	UWSCG End of May 2024	Completed May 2024, Photo N4

2.2 Project Contracts and Management

- 24. The main institutions that are involved in implementation of the IEE/EMP under USIIP/T6 are UWSCG executing agency (EA), Supervision Consultant (SC) the Construction Company (CC) and to a lesser extent the Ministry of Environmental Protection and Agriculture of Georgia (MoEPA).
- 25. The Investment Program Management Office (IPMO) under UWSCG, is the Department of Management of Projects Financed by Donor Organizations, which is responsible for the day-to-day management of the project, including the implementation of the EMP. IPMO has an Environmental Specialist Ms. Kate Chomakhidze who is responsible for managing the environmental aspects of the USIIP. The deputy head of the department is Mr.Nodar Rostomashvili.
- **26.** The IPMO Environmental Specialist's responsibilities in respect of implementation of the EMP are as follows:
 - (i) Approve the Site Specific Environmental Management Plan (SSEMP) before Contractor takes possession of construction site;
 - (ii) Monitor implementation of EMP and ensure the environmental safeguards compliance;
 - (iii) Review the updated IEE and/or SEMP and send it for clearance to ADB;
 - (iv) Ensure that contractors have access to the EMP and IEE report;
 - (v) Develop SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; Provide ENG and summary of GEO final versions of SAEMRs to be uploaded on UWSCG website;
 - (vi) Review and approve the Corrective Action Plan and provide to ADB for review and comments if any;
 - (vii) Participate in public consultations during project implementation;
 - (viii) In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints;
 - (ix) Assist in organizing trainings for the Contractors in coordination with ADB/RETA consultant;
 - (x) Participate in external trainings in environmental management and environmental auditing
- 27. The SC/HILL hires a full time Environmental Specialist, Mr.Nikoloz Neparidze to assist the IPMO oversee day-to-day implementation of EMPs by contractors under USIIP/T6, including compliance with all government rules and regulations; Support IPMO in the review and endorsement of contractor's SSEMP; Conduct inspections on contractor's implementation of SSEMP and compliance with government rules and regulations; Ensure contractors comply with health and safety requirements per approved SSEMP's Health and Safety Management Plan; Conduct investigations on grievances/complaints, incidents and accidents; Assist IPMO in addressing any grievances in a timely manner as per the GRM; Issue non-compliance notifications to CC; Monitor corrective actions as required in CAPs, and ensure non-compliances are resolved immediately and are not occurring repeatedly; Prepare recommendations for contractors repeated non-compliances on safeguards and EHS requirements; Submit monthly and quarterly environmental monitoring reports to IPMO.
- 28. The Construction Companies also appointed a full time Environmental specialists under MAR-01 and MAR-02 sub-project. Mr.Guram Tandilashvili is the Environmental Specialist of the construction management team under MAR-02 sub-project, Mr.Sandro Abzianidze is the ESH&S specialist of MAR-01 (LOT-04 and LOT-05) sub-project, Mr.levan Inashvili is the Environmental Specialist and Mr. Aleksandre Chitadze is the H&S Specialist of MAR-01 (LOT-01, LOT-02, LOT-03 and LOT-06) sub-project, for more detailed information, please see Table 3 below. Environmental Specialists of CCs are responsible for preparing the Specific

Environmental Management Plan (SSEMP) for endorsement by Supervision Consultant and approval by the UWSCG prior to the Contractor taking possession of the construction site and provide pre-works photo documentation; Ensuring the SSEMP is implemented effectively throughout the construction period; Establish and maintain site records of weekly site inspections using checklists based on SSEMP; Establish and maintain environmental accidents/incidents including resolution activities and environmental monitoring data; Developing Corrective action plans in response to non-compliance notices issued by the SC and UWSCG; Conduct Community relations activities including maintaining complaints register; Routine reporting of SSEMP compliance and community liaison activities; Implement Occupational Health and safety requirements. Implement site clean-up measures after civil works finalization.

29. Department of Permits, Environmental Protection and Social Affairs of the UWSCG is working alongside IPMO to address the environmental and social issues of USIIP. The head of the department is Ms. Maka Goderdzishvili. The Department of Environmental Protection consists of two divisions, the Division of Permits and the Division of Environmental Protection and Social Affairs. Ms. Salome Mosidze is the Head of the Division of Environmental protection and Social Affairs. More detailed description of implementation arrangements; responsibilities and staffing are provided in the Table 3 below.

Table 3: Institutionnel Arrangement, Responsabilités and Staffing

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Department of Permits, Environmental Protection and Social Affairs (Environmental Specialist)
1	Environmental planning and management Contractors Environmental Management Plan (site-specific EMP)	Prepare Specific EMP (SEMP) with supplemented Topic Specific EMPs at pre- construction stage based on IEE/EMP Implement SEMP approved by IPMO.	Review and endorse the SEMP; Monitor implementation of SEMP on daily basis; Monitor monthly environmental monitoring reports or results prepared by the Contractor and report to IPMO.	Review and approve the SEMPs; Monitor implementation of EMP and ensure the environmental safeguards compliance.	Work together with IPMO on addressing the environmental noncompliance issues, if any.
2	Changes in design	Provide details of design changes to CSC required to update IEE/EIA, or SEMP; Implement updated SEMP.	Approve the design change to be submitted to IPMO; Make environmental assessment of the change and update the IEE and/or SEMP.	Review the updated IEE and/or SEMP and send it for clearance to ADB	Liaise with CSC in preparing updated IEE and/or SEMP; Upload the approved IEE/SEMP provided by IPMO to UWSCG website for Public Disclosure.
3	Unanticipated impacts	Inform CSC about unanticipated impact and follow the instructions received from IPMO.	Make environmental assessment of the unanticipated impact and update the IEE and/or SEMP	Review the updated IEE and/or SEMP and send it for clearance to ADB	Liaise with CSC in preparing updated IEE and/or SEMP

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Department of Permits, Environmental Protection and Social Affairs (Environmental Specialist)
4	Reporting	Prepare monthly environmental monitoring reports and send it to CSC and IPMO	Prepare inputs to environmental part of quarterly construction progress reports; Prepare inputs to semi-annual environmental monitoring report (SAEMR) to be submitted to IPMO for further review, comments and improvement. Conduct Post-Construction Final Environmental Audit and prepare final environmental audit report.	1. Prepare SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; 2. Provide ENG and GEO final versions of SAEMRs to be uploaded on UWSCG website.	Upload the approved reports (ENG and GEO) provided by IPMO to UWSCG website for Public Disclosure
5	Permits and clearances	NA	NA	NA	Obtaining environmental permits and clearances
6	Non-compliances	Prepare a corrective action plan (CAP)	Assist contractor in preparing the CAP.	Review and approve the CAP and provide to ADB for review and comments if any.	
7	Public consultations Participate in public consultations during project implementation		Public consultations consultations during project inform people about activities and prepare the record of		UWSCG & IPMO host PCs, CSC will present the topics related to environmental issues

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Department of Permits, Environmental Protection and Social Affairs (Environmental Specialist)
8	Grievance Redress Mechanism	Project site Focal person to record environmental grievances in the logbook and follow up with UWSCG established practice for grievance redress	1. Ensure that grievances, if any, are being properly documented and addressed timely and effectively. 2. Assist IPMO to develop consolidated GRM database and consolidation of GRM cases both for ENV and Social safeguards	In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints; Assist IPMO Social/Resettlement Consultant in GRM database consolidation and data analysis.	UWSCG maintains GRM applicable to all projects. UWSCG will ensure IPMO information on grievances is consolidated into the UWSCG grievances (both - environmental and social) without duplication.
9	Trainings	Attend on-site trainings organized by IPMO and ADB/RETA Consultant	Assist the IPMO in organization of trainings for the Contractors on environmental safeguards requirements.	Organize trainings for the Contractors in coordination with ADB/RETA consultant. Participate in external trainings in environmental management and environmental auditing	Participate in external trainings in environmental management and environmental auditing

30. Main organizations involved in the project and related to environmental safeguard are presented in the Table 4 below:

Table 4: List of Main Organizations under USIIP/T6

Type of project participant	Name of Agency/Comp any	Environmental Staff	Name and contact details
Lender	Asian	Country	Ninette R. Pajarillaga,
	Development Bank	Environmental Focal	E-mail:
			npajarillaga@adb.org
		Safeguards Officer	Nino Nadashvili
		Georgia Resident Mission	Tel: +995 577 44 09 90
		Asian Development	E-mail:
		Bank	nnadashvili@adb.org
		ADB RETA,	George Kobaladze
		Environmental Consultant	Tel: +995 599 689834
			E-mail
			gkobaladze.consultant@adb.org, me
Borrower	UWSCG	UWSCG, Department of Permits, Environmental Protection and Social	Ms. Maka Goderdzishvili
			Tel: +995 599 229925
		Affairs, Head	E-mail:
			m.goderdzishvili@water.gov.ge
			Mr. Nodar Rostomashvili
		UWSCG/IPMO,	E-mail: n.rostomashvili
		Department of Management of	@water.gov.ge
		Projects Financed by Donor Organizations, Deputy Head	Tel: +995 597 18 11 11
Borrower	UWSCG/USIIP	Environmental	Ms. Ketevan Chomakhidze
	/T6	Specialist	Tel: +995 577 380309
			E-mail:
			Chomakhidzek@yahoo.com
Supervision	Supervision	Environmental	Mr. Nikoloz Neparidze
Consultant	Consultant: Hill International	Specialist	Tel: 599 346 821
	N.V. (Netherlands)		E-mail: nikonep7@outlook.com

Type of project participant	Name of Agency/Comp any	Environmental Staff	Name and contact details
Contractor	"Akkord Industry	EH&S Specialist	Environmental Specialist of CC:
CHI-01	Construction		Name:
	Investment Corporation"		Mr. Teodor Kalmakhelidze Tel:
	OJŚC (Azerbaijan)		+995 598 977 977
	(Azerbaijari)		E-mail:
			kalmakhelidzetedore@gmail.com
Contractor	China Geo-	Environmental	Mr. Levan Inashvili
MAR-01	engineering Corporation (CGC) (Peoples Republic of China)	Specialist	Tel: +995 591 199 991
Lot-01			E-mail:
Lot-02			
Lot-03		H&S	Mr. Aleksandre Chitadze
Lot-06			Tel:+995 577 969 736
Contractor		Environmental, H&S	Mr.Sandro Abzianidze
MAR-01	POLAT Yol Yapi Sanayi ve	Specialist	Tel: +995 599 45 29 02
Lot-04	Ticaret Anonim		E-mail: sandroabzianidze@gmail.com
Lot-05	Sirkei (Turkey).		
Contractor	Toshiba Water	Environmental H&S	Mr. Guram Tandilashvili
MAR-02	Solutions Pvt. Ltd and IN-SI	Specialist	E-Mail: guram.tandilashvili@gmail.com
	LLC (JV partner)		Mob: +995 577 36 37 29
	(India/Georgia)		

2.3 Project Activities during Current Reporting Period

2.3.1 Construction Progress under CHI-01 Sub-project, Construction of Water Supply System in Chiatura

31. The physical progress for section of CHI-01 sub-project is 99.7% and for section 2 it is 52.89%. The aggregate progress for all works (section 1 and section 2) is 96.16%. However, actual physical progress for Avarioni works & other miscellaneous works is detailed below.

Table 5: Physical Progress of Works under CHI-01 sub-project

Item	Description	Un	Quantity	Quantity	Percent
No		it	Project	Completed	age
				as of	

				31.12.2023	
Work	s related to Avarioni Water Supply				
1	HDPE Pipes installation including fittings and end	М	7,384.00	6052	81.96%
	cups as required.		,		
2	Cleaning, flushing and disinfection with chlorine of installed pipelines, including supply and disposal of water	m	7384	0	0.00%
3	Trenches for pipe installation	m3	5,320.00	4845.15	84.75%
4	Valves		44.00	16.00	36.36%
5	House connections implementation and administrative requirements	n	340.00	187.00	55.00%
6	Hydraulic Chambers	n	12.00	10.00	83.33%
7	New Reservoir 500 m3	n	1.00	93.00%	88.65%
8	Reservoir Mechanical Installation	ls	1.00	25.00%	25.00%
9	Pumping Station Mechanical Installation	ls	1.00	-	0.00%
10	Electrical Equipment	ls	1.00	-	0.00%
11	Instruments and SCADA system	ls	1.00	-	0.00%
12	New Pumping Station Construction	ls	1.00	-	0.00%
13	Construction of New PS building in front of Bisi Reservoir	ls	1.00	65.00%	65.00%
B: Mi	sslenious Works				1
1	Installation of Generators	ls	1.00	0	0.00%
2	Installation of Boosters in Navradzeti area	ls	1.00	0	0.00%
3	Installation of Boosters in Memorial Area	ls	1.00	85.00%	85.00%

32. The physical progress concerning the main contract is given in the Table 6 below.

Table 6: Progress Concerning the Main Contract

Pipeline 	Unit	Quantity	Executed up to May 2022	Executed in year 2022 & 2023	Total executed up to Dec 2023	% Progress
Main Transmission Line	m	16.038	16038	0	16038	100.00%
Distribution Network	m	68.391	68.391	0	68.391	100.00%
DN355 Bisi-CPS Transmission	m	745	745	0	745	100.00%
DN160 CPS-Lezhubani	m	2,165	2165	0	2165	100.00%
DN160 CPS-Perevisi	m	1,810	1810	0	1810	100.00%
DN225 CPS-Rustaveli	m	1,264	1264	0	1264	100.00%

Pipeline	Unit	Quantity	Executed up to May 2022	Executed in year 2022 & 2023	Total executed up to Dec 2023	% Progress
DN225 Lezhubani Res to PS	m	341	341	0	341	100.00%
Q200 ST Lezhubani PS - Memorial Res	m	2025	2025	0	2025	100.00%
Q100 ST Perevisi PS - Tekhisa	m	2053	2053	0	2053	100.00%
DN160 Memorial- Navardzeti	m	1,470	1470	0	1470	100.00%
Giorgadze area	m	1,540	1450	0	1450	100.00%
Total Laid Pipe	m	97,306	97,306	0	97,306	100.00%
House Connection	n	8,457	8,457	0	8,457	100%
Crossings	n	10	0	0	0	100%
Hydraulic Chambers	m3	1,219	1219	0	1219	100%
Hydrants	n	205	205	0	205	100%

33. The Cumulative Progress of Structures Chiatura is given in the Table 7 below.

Table 7: Cumulative Progress of Structures Chiatura

Cumulative Progress	Up to Previous Month			Up to 31 Dec 2023				
	Civil	Mech	Elec	SCADA	Civil	Mech	Elec	SCADA
Wellfield	100%	100%	100%	100%	100%	100%	100%	100%
Sachkhere Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Bisi - New Reservoir	98%	100%	100%	100%	100%	100%	100%	100%
Bisi - Old Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
CPS	95%	100%	100%	100%	100%	100%	100%	100%
Lezhubani Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Perevisi Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Rustaveli Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Tekhisa Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Memorial Reservoir	100%	100%	100%	100%	100%	100%	100%	100%
Perevisi PS	100%	100%	100%	100%	100%	100%	100%	100%
Lezhubani PS	100%	100%	100%	100%	100%	100%	100%	100%
Memorial PS	100%	100%	100%	100%	100%	100%	100%	100%
New Memorial PS	100%	100%	100%	100%	100%	100%	100%	100%

34. The cumulative total physical progress is given in the Table 8 below.

Table 8: Cumulative Total Physical Progress under CHI-01 sub-project

Location	Previous Month	Current Month
Wellfield	100%	100%
Sachkhere Reservoir	100%	100%
Bisi – New Reservoir	99%	100%
CPS	99%	100%
Lezhubani Reservoir	100%	100%
Perevisi Reservoir	100%	100%
Tekhisa Reservoir	100%	100%
Memorial Reservoir	100%	100%

2.3.2 Construction progress under MAR-01 project, Construction of Water Supply and Waste Water Systems in Marneuli and Construction of Collector in Bolnisi (MAR-01/LOT-01/LOT-02/LOT-03/LOT-06)

35. The physical progress of construction activities under MAR-01 (LOT-01, LOT-02, LOT-03 and LOT-06) sub-project as done by China Geo-engineering Corporation (CGC) is presented in the Table 9, 10, 11 and 12 below.

Table 9: Progress of Physical Works, LOT-01

MAJOR ITEMS	As per BOQ	to date	%	Remaining
			executed	
PE pipes supply & install, m	6068	5575	91.88%	493
Fire hydrant, Nos	186	9	4.84%	177
Valves, Nos	119	20	16.81%	99
House connections, Nos	1705	1436	84.22%	269
Pressure testing meter length	4558	35906	787.76%	-31348
Flushing in meters	39469	21000	53.21%	18469

Table 10: Progress of Physical Works, LOT-02

MAJOR ITEMS	As per BOQ	to date	%	Remaining
			executed	
Provide and lay HDPE	34609	31982		2627
sewer pipes			92.41%	
Provide and lay water	43213	41182.7	95.30%	2030.3
supply pipes				
Fire Hydrant	278	113	40.65%	165
Valves	343	203	59.18%	140
Manhole	1005	461	45.87%	544
Inspection shafts	1005	955	95.02%	50
Water supply House	4027	1757	43.63%	2270
connection				
Water meter in	320	0	0.00%	320
apartment blocks, Nos				
Pressure testing meter	40163	0	0.00%	40163

MAJOR ITEMS	As per BOQ	to date	% executed	Remaining
length				
Pumping station	2	0	0.00%	2

Table 11: Progress of Physical Works, LOT-03

MAJOR ITEMS	As per BOQ	to date	% executed	Remaining
Provide and lay HDPE sewer pipes	49642	814	21525	43.36%
Provide and lay water supply pipes	46360	757	23703.97	51.13%
Fire Hydrant	295	0	40	13.56%
Valves	230	0	35	15.22%
Manhole	1200	0	503	41.92%
Inspection shafts	1428	0	293	20.52%
House connection	2010	0	195	9.70%
water meter in apartment blocks, Nos	320	0	0	0.00%
Pumping station	1	0	0	0.00%
Crossings	12	0	0	0.00%
Sewer pipesCCTV	59206	0	21262.83	35.91%
cleaning of sewer pipes	59206	0	21262.83	35.91%

Table 12: Progress of Physical Works, LOT-06

MAJOR ITEMS	As per BOQ	to date	% executed	Remaining
Transmission Lines DCI pipe, m	18513	0	15327	82.79%
Crossings	8	0	2	25.00%
City Reservoir C30/37 concrete civil works, cum	2612	0	2654	101.61%
Jandhary Reservoir C30/37 Concrete civil, cum	468	0	26	5.56%
Kolagiri Pump house civil	100%	5%	90%	90.00%
Mechanical works				
Kolagiri	100%	5%	95%	95.00%
City Reservoir	100%	0%	90%	90.00%

Jandhary Reservoir	100%	5%	95%	95.00%	
Electrical					
City Reservoir	100%	60%	80%	80.00%	
Jandhary Reservoir	100%	30%	90%	90.00%	

2.3.3 Construction progress under MAR-02 sub-project, Construction of Wastewater Treatment Plant in Marneuli (MAR-02)

36. The progress of construction works under MAR-02 sub-project is given table below.

Table 13: Cumulative Schedule wise Progress under MAR-02 Sub-project, up to Dec 2024

	Cumulative Total Progress								
Schedule	Particulars	Up to Previous Month	Current Month	Total					
(1)	Site Mobilization	99,23%	0,0%	99,23%					
(II)	Excavation work	98,58%	1,42%	100,0%					
(III)	Installation Civil work	96,00%	0,0%	96,00%					
(III-1)	Installation Architectural work	87,26%	3,81%	91,07%					
IV)	Supply of Equipments	99,25%	0,0%	99,25%					
(V)	Installation Mechanical	99,00%	0,0%	99,00%					
(VI)	nstallation Electrical	97,00%	0,0%	97,00%					
(VII)	Overall piping	97,50%	0,0%	97,50%					
(VIII)	Algeti 35kv Power Line relocation (change order 1)	100,00%	0,0%	100,00%					
(IX)	Electrical cable pulling works	97,00%	0,0%	97,00%					
Х	Metal works (handrail-cheqer plate-gratings-steel structures etc)	95,00%	2,50%	97,50%					

Table 14: Structure wise Progress under MAR-02 sub-project

Cumulative Physical Progress	Up t	Up to Previous Month %			Cı	urrent N	lonth '	%	Total %			
Structures	Civil	Mech.	Elec	Arch.	Civil	Mech	Elec	Arch.	Civil	Mech	Elec	Arch.
Site mobilization & Soil nvestigations	99,23	No	No	No	0,0	No	No	No	99,23	No	No	No
Permanent Fence	0,00	No	No	No	0,0	No	No	No	0,00	No	No	No
RC Wall	98,97	No	No	No	0,0	No	No	No	98,97	No	No	No
Coarse screen	100,0	100,0	100,0	91,75	0,0	0,0	0,0	8,25	100,0	100,0	100,0	100,0
Inlet PS	100,0	100,0	100,0	91,75	0,0	0,0	0,0	8,25	100,0	100,0	100,0	100,0
Fine screen	100,0	100,0	100,0	91,75	0,0	0,0	0,0	8,25	100,0	100,0	100,0	100,0
Aerated grit chamber	100,0	90,0	100,	No	0,0	0,0	0,0	No	100,0	90,0	100,	No
Primary sed. Tanks	100,0	100,0	100,	No	0,0	0,0	0,0	No	100,0	100,0	100,	No
Aeration tank	100,0	80.0	100,0	No	0,0	0,0	0,0	No	100,0	80,0	100,0	No
Aeration tank distribution chamber	100,0	100,0	100,0	No	0,0	0,0	0,0	No	100,0	100,0	100,0	No
Blower Building	100,0	100,0	100,0	94,15	0,0	0,0	0,0	4,65	100,0	100,0	100,0	98,80
Final sed. Tanks	100,0	100,0	100,0	No	0,0	0,0	0,0	No	100,0	100,0	100,0	No
Final sed. Tanks distribution chamber	100,0	100,0	100,0	No	0,0	0,0	0,0	No	100,0	100,0	100,0	No
Sludge sump cum PS	100,0	100,0	100,0	No	0,0	0,0	0,0	No	100,0	100,0	100,0	No
Digester+thick.sludge pit	100,0	100,0	100,0	No	0,0	0,0	0,0	No	100,0	100,00	100,0	No

Cumulative Physical Progress	Up t	o Previo	ous Mon	ith %		Cı	Current N	Current Month	Current Month %	Current Month %	Current Month % To	Current Month % Total %
ctures	Civil	Mech.	Elec	Arch.		Civil	Civil Mech	Civil Mech Elec	Civil Mech Elec Arch.	Civil Mech Elec Arch. Civil	Civil Mech Elec Arch. Civil Mech	Civil Mech Elec Arch. Civil Mech Elec
bilization & Soil	99,23	No	No	No		0,0	0,0 No	0,0 No No	0,0 No No No	0,0 No No No 99,23	0,0 No No No 99,23 No	0,0 No No No 99,23 No No
vestigations iogas utilization building	100,0	100,0	100,0	93,65		0,0	0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0 4,30	0,0 0,0 0,0 4,30 100,0	0,0 0,0 0,0 4,30 100,0 100,00	0,0 0,0 0,0 4,30 100,0 100,00 100,0
Primary sludge thickener	100,0	100,0	100,0	70,0		0,0	0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0 25	0,0 0,0 0,0 25 100,0	0,0 0,0 0,0 25 100,0 100,00	0,0 0,0 0,0 25 100,0 100,00 100,0
Digested sludge pump Mechanical Pre	100,0	100,0	100,0	93,70	0	^	,0 0,0	,0 0,0 0,0	,0 0,0 0,0 0,0	,0 0,0 0,0 0,0 100,0	,0 0,0 0,0 0,0 100,0 100,00	,0 0,0 0,0 0,0 100,0 100,00 100,0
hickening building	100,0	100,0	100,0	93,70	0,0		0,0	0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0 100,0	0,0 0,0 0,0 100,0	0,0 0,0 0,0 100,0 100,00 100,0
Emergency sludge storage place	100,0	No	No	100,0	0,0		0,0	0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0 100,0	0,0 0,0 0,0 100,0 No	0,0 0,0 0,0 100,0 No No
Sludge dewatering	100,0	100,0	100,0	93,70	0,0	_	0,0	0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0 100,0	0,0 0,0 0,0 100,0 100,00	0,0 0,0 0,0 100,0 100,00 100,0
ouilding Outflow Measurement	100,0	100,0	100,0	No	0,0)	0,0	0,0 0,0	0,0 0,0 0,0	0 0.0 0.0 0.0 100,0	0 0.0 0.0 0.0 100,0 100,00	0 0.0 0.0 0.0 100,00 100,00
Chamber					,			, ,	, , ,	3,0 3,0 3,0	3,3	3,0 3,0 7
Gas holder	100,0	100,0	100,0	No	0,0		0,0				3,0 3,0 0,0	0,0 0,0 0,0
Gas torch	100,0	100,0	100,0	0,00	0,0	0,			1 1	· · · · · · · · · · · · · · · · · · ·	7,5 7,5 7,5	7,0 0,0 0,0
Fecl3 dosing system	100,0	100,0	100,0	75,00	0,0	0,0		0,0	- , -	- 7 -	- 7 -	- 7 -
Administration building	100,0	0,0	90,0	92,10	0,0	0,0		0,0	0,0 2,97	0,0 2,97 100,0	0,0 2,97 100,0 0,0	0,0 2,97 100,0 0,0 90,0
Garage & workshop	100,0	0,0	95,0	92,10	0,0	0,0		0,0	0,0 2,97		· · · ·	
Scrubber area & CHP	100,0	100,0	100,0	No	0,0	0,0		0,0			0,0 0,0 /	0,0 0,0 7
diesel tank area	100,0	100,0	100,0	No	0,0	0,0	L	0,0	, ,	, ,		2,0
substation building-MCC 2	100,0	0,0	100,0	86,00	0,0	0,0		0,0	0,0 8,86	0,0 8,86 100,0	0,0 8,86 100,0 0,0	0,0 8,86 100,0 0,0 100,0
control room - operation build.	100,0	50,0	100,0	85,40	0,0	0,0		0,0	0,0 0,0	0,0 0,0 100,0	0,0 0,0 100,0 50,0	0,0 0,0 100,0 50,0 100,0
MCC-1	100,0	0,0	100,0	86,0	0,0	0,0		0,0				
MCC-3	100,0	0,0	100,0	92,95	0,0	0,0		0,0				
Inter connection pipes including champers & manholes for drainage, pipe work, air piping system, potable water and technical water, fire-fighting system.	97,50	No	No	No	0,0	No		No				
Roads & drainage channel	8,00	No	No	No	4,00	No		No	No No	No No 12,00	No No 12,00 No	No No 12,00 No No
Landscaping	0,00	No	No	No	0,00			10				·
Pre -Commissioning of WWTP	0,00	0,00	0,00	0,00	0,00	0,00	(0,00	0,00 0,00	0,00 0,00 0,00	0,00 0,00 0,00 0,00	0,00 0,00 0,00 0,00

2. NVIRONMENTAL SAFEGUARD ACTIVITIES

2.1 General Description of Environmental Safeguard Activities

- 37. During the reporting period (July-December 2024), a total of 11 site visits were conducted under the USIIP/T6 program. These visits identified a total of 43 non-compliances, resulting in 10 non-compliance notices issued to the contractor by the ESs of SC and UWSCG/USIIP. Specifically, within the MAR-02 subproject, 8 non-compliances were identified and 3 non-compliance notices were issued to the contractor. During this period, under the USIIP/T6 MAR-01 subproject 35 non-compliances were identified, resulting in 8 non-compliance notices issued to the contractor. For more details, refer to Table 15 and Annex B.
- **38.** Environmental, H&S Specialist, Mr. Guram Tandilashvili hired by Contractor under the MAR-02 sub-project conducted the day-to-day monitoring of the Marneuli WWTP construction site and developed monthly monitoring reports and represented to SC / Hill.
- **39.** Environmental Specialist, Mr. Levan Inashvili hired by Contractor under the MAR-01/LOT-01/LOT-02/LOT-03/LOT-6 sub-project conducted the day-to-day monitoring of the Marneuli water supply and waste water systems construction sub-project and developed monthly monitoring reports and represented to SC / Hill.
- **40.** Environmental, H&S Specialist, Mr. Sandro Abzianidze hired by Contractor under the MAR-01/LOT-04/LOT-05 sub-project conducted the day-to-day monitoring of the Marneuli water supply and waste water systems construction site and developed monthly monitoring reports and represented to SC / Hill.
- 41. During the reporting period Environmental Specialist (ES) Mr. Nikoloz Neparidze hired by SC/HILL for the implementation of the IEE/EMP/SEMPs requirements under USIIP/T6 develops quarterly monitoring reports for UWSCG/USIIP based on the monthly reports submitted by Contractor.
- **42**. Environmental Specialist of UWSCG/IPMO, Ms. Ketevan (Kate) Chomakhidze performed monitoring of contractor's performance with the approved EMPs and SSEMPs, environmental standards and other environmental commitments of the contractor. ES of USIIP develops Semi-annual Environmental Monitoring Reports (SAEMR) for USIIP/T6 and submits to ADB based on the quarterly reports prepared by SC and monitoring results of construction sites.
- **43.** The schedule of Joint inspection and summary of inspections/monitoring carried out under sub-projects during the reporting period July-December 2024 are provided in the Table 15 below. It should be noted also that the majority of non-compliances are improved by contractor during the reporting period, issues pending and need further improvement is include fencing of the Jandari Reservoir under MAR-01/LOT-06.

Table 15. Summary of site inspections/monitoring for MAR-01 and MAR-02 sub-projects

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Name of Contract					
Continuously during reporting period (July-December 2024) GPC Coordinates: X 44.840296	Toshiba Water Solutions Pvt. Ltd and IN-SI LLC MAR-02	Environmental, H&S Specialist of Contractor Mr. Guram Tandilashvili	Day to day monitoring of sites Compliance with Environment al and HES requirements	Environmental and Health and Safety issues on construction sites. Workers always should use complete set of PPE.	Prepare Monthly Environmental Monitoring Reports and send to SC	Completed
Y 41.465192 12 September 2024		Environmental Specialist of UWSCG/USIIP Ms.Kate Chomakhidze Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Regular monitoring of construction sites	Site internally should be arranged properly and cleaned regularly, waste should be placed only at the proper waste containers and removed regularly, Photo N1	given to contractor to immediately improve	Completed, end September 2024, all construction waste is removed from the territory Photo N1

³ The USIIP/T6/MAR-01 subproject has several pending non-compliance, which are described in the subsection entitled: Pending issues under MAR-01 and MAR-02 sub-projects and Implemented Measures. INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
				All construction materials should be properly segregated and stored adequately, Photo N2	Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are presented in Annex B, non-compliance note)	Completed, end of September 2024, Photo N2
				Construction waste should be timely removed from the construction site and disposed properly		Completed, end of September 2024, Photo N3

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Name of Contract					
7 November 2024		ADB's Environmental Safeguard Mission, leaded by Mrs. Ninette R. Pajarillaga,	ADB's Environment al Safeguard Mission	Waste Management Site internally should be arranged properly and cleaned regularly, waste should be removed regularly, Photo N1	Verbal instruction was given to contractor to immediately improve the situation.	Completed, Mid. November 2024, Photo N1
		Country Environmental Focal and Ms. Nino Nadashvili, Associate			Non-Compliance Notice was issued and is presented in Annex B of this report.	
		Safeguards Officer Georgia Resident Mission Asian Development			(Photo- documentations are presented in Annex B, non-compliance note)	
		Bank Environmental			Corrective Action Plan	(EGrant 2001) St A

Date of Visit Company Name of	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
Contract					
	Specialist of UWSCG/USIIP Ms.Kate Chomakhidze Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze		All construction materials should be properly segregated and stored adequately, Photo N2 Electric Cables Electric cables should be properly arranged to eliminate any potential hazards for workers and visitors on the site, Photo N3		Completed in November 2024, All cables are removed, Photo N1

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
20 December 2024		Environmental Specialist of UWSCG/USIIP Ms.Kate Chomakhidze Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Regular Monitoring of Sites	Waste Management Site internally should be arranged properly and cleaned regularly, all construction materials should be properly segregated and stored adequately, Photo N1	Verbal instruction was given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are presented in Annex B, non-compliance note)	Completed, All construction mate removed from the construction site

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
					Corrective Action Plan has been developed by contractor and sent to SC and UWSCG	
				Deep unprotected trenches Deep and unprotected open trenches pose a threat to workers and visitors to the construction site, Photo N2		Completed, Photo N1

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Name of Contract					
Continuously during reporting period (July- December 2024)	China Geo- engineering Corporation (CGC) (Peoples Republic of China)	Environmental, H&S Specialist of Contractor Mr. Levan Inashvili	Regular Environment al monitoring of sites	Day to day monitoring of sites Compliance with Environmental and HES requirements	Prepare Monthly Environmental Monitoring Reports and send to SC	Performed monthly during the reporting period
8 August 2024	MAR-01 LOT-01, LOT- 02, LOT-03 and LOT-06	Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Regular Environment al monitoring of sites	The deep trench is not reinforced with protective shields, Photo N1	Verbal instruction was given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are presented in Annex B, non-compliance note)	Completed, end of September 2024, Photo N1
				The workers are not using the PPE, Photo N2	Corrective Action Plan has been developed	Completed, end of September 2024, Photo N2

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Contract				by contractor and sent to SC and UWSCG	
10 September 2024		Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Regular Environment al monitoring of sites	The deep trench is not reinforced with protective shield, Photo N1	Verbal instruction was given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report.	Completed, end of September 2024
				The workers are not using the PPE, Photo N2	(Photo- documentations are presented in Annex B,	Completed, immediately

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Name of Contract					
					non-compliance note) Corrective Action Plan has been developed by contractor and sent to SC and UWSCG	
12 September 2024		Environmental Specialist of UWSCG/USIIP Ms.Kate Chomakhidze Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Regular monitoring of construction sites	Aadequate and sufficient quantity of Safety/warning signs/tapes and trench side barriers around of deep open trenches should be installed to avoid accident of workers on construction site	Verbal instruction was given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report.	Completed, end of September 2024
				Walls of the deep trenches (>1.5m) should be strengthened by adequate and sufficient quantity of boards to avoid landfall of the soil and accidents (workers	(Photo- documentations are presented in Annex B, non-compliance note)	Completed, Mid. September 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Contract			All construction site/segment must have adequate access in order not to endanger the workers, Photo N2 The contractor shall hire a cable control person – flag man to avoid	Corrective Action Plan has been developed by contractor and sent to SC and UWSCG	Completed, Mid. September 2024

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation §	Status
	Name of Contract						
				damage of cables			
				Trench construction shall be taken up in small segments, so that work (excavation, pipe laying and refilling) in each segment is completed in a day			
				No trenches shall be kept open in the night/after		Completed, September 2024	Mid.
				work hours, in case construction works are not completed during the day time provide adequate lighting to avoid accidents, Photo N3		Completed, September 2024	Mid.
						Completed, September 2024	Mid.
				General Notes: Informing all residents and		Completed, September 2024	Mid.

Date of Visit	Name of Company	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Name of Contract					
				businesses about the nature and duration of any work well in advance so that they can make necessary preparations if needed The construction area must be constantly watered to reduce dust generation, watering of the road should be carefully managed and maintained, so that the volume and timing of water used is correct and water run-off does not make its way into watercourses Overpasses should be		Completed, Mid. September 2024 Completed, Mid. September 2024
				provided for local residents to have easy access to homes and businesses Workers without PPE		
16 September 2024		Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz	Permanent monitoring of Sites	The works on 26 May street in Marneuli are continuously being carried out without adequate safety conditions. Among	Verbal instruction was given to contractor to immediately improve the situation.	Completed, end of September 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
		Neparidze		other flaws, shoring is not being used, there is a lack of adequate protection of the trench and the traffic signals are insufficient, this way putting at risk not only workers but the population that needs to use that road, Photo N1 The quality of the performed works is not in accordance with the requirements of the Contract, as the backfilling of the trenches is not being done in layers, nor is it properly compacted, Photo N2	Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are presented in Annex B, non-compliance note) Corrective Action Plan has been developed by contractor and sent to SC and UWSCG	Completed, end of September 2024, Photo N1

Date of Visit	Name of Company Name of	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
	Contract					
25 September, 2024		Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Permanent monitoring of Sites	There is no speed limit sign along the trench The trench boundary is damaged or missing. Garbage is dumped in the trench, Photo N1	Verbal instruction was given to contractor to immediately improve the situation.	September 2024, Photo
					Non-Compliance Notice was issued and is presented in Annex B of this report. (Photo- documentations are presented in Annex B,	
				If the work is temporarily stopped, the trench should be covered with a special	non-compliance note)	

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
				cover Earthworks are underway. The deep trench is not reinforced with protective shields, Photo N2		Completed, cha of
				The vehicle passage on the trench is not surrounded by embankments		Completed, end of September 2024
				Traffic is blocked for cars. There is no crossing bridge at the entrances to the residents' houses, Photo N3		Completed, end of September 2024 Completed, end of September 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
				Pelinters Conty		
10 October 2024		Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze	Permanent monitoring of Sites	The deep trench is not reinforced with protective shields, Photo N1 The workers are not using the PPE, Photo N2	given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are	

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
				The trench boundary is damaged or missing.		Completed, Mid. October 2024
7 November, 2024	MAR-01	ADB's Environmental Safeguard Mission, leaded by Mrs. Ninette R. Pajarillaga, Country Environmental Focal and Ms. Nino Nadashvili, Safeguards Officer Georgia Resident Mission Asian Development	Semi-annual Environment al Safeguard Mission	Jandari Reservoir Fencing of Jandary Reservoir, Photo N1 City Reservoir Site internally should be	Verbal instruction was given to contractor to immediately improve the situation.	Not completed

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
		Bank		cleaned regularly and construction waste should be removed from the site, Photo N2		Completed, Mid. November 2024, Photo N1
12 December, 2024		Environmental Specialist of Supervision Consultant HILL Mr.Nikoloz Neparidze Environmental Specialist of UWSCG/USIIP Ms.Kate Chomakhidze	Monthly monitoring of Sites	Construction of Jandari Reservoir in Marneuli, MAR-01/LOT-06 An appropriate fence must be installed along the entire perimeter of the Jandari Reservoir to prevent unauthorized persons from entering the construction site and equipped with lockable gate and proper warning and formation signs, Photo N1	Verbal instruction was given to contractor to immediately improve the situation. Non-Compliance Notice was issued and is presented in Annex B of this report. (Photodocumentations are presented in Annex B,	Not yet Completed, Work is underway to cover Jandari Reservoir with Coil. Once the work on the ground is completed, the fence will be installed, end of December 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
					non-compliance note,) Corrective Action Plan has been developed by contractor and sent to SC and UWSCG	
				The construction site should be graveled to ensure smooth and safe movement of workers and visitors, Photo N2		Completed, end of December 2024, Photo N1
				High visible safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents of local population, Photo N3		Partially completed, Photo N2, Mid. December 2024, Some parts are still open

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³ Implementation Status
				The construction internal area should be regularly cleaned and organized, construction materials should be placed separately and stored properly, Photo N4		Completed, mid. December 2024, Photo N3
				A power generator without a drip tray and/or concrete floor causes oil leaks and soil contamination, Photo N5		Completed, power generator was removed to from the construction site, mid. Of December 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³Implementation Status
				Burning of waste on the construction site is prohibited, Photo N6 Concrete must be removed from the area and the soil must be reclaimed, Photo N7		Completed, immediately, Photo N4 Completed, Mid. December 2024

Date of Visit	Name of Company Name of Contract	Auditors Name	Purpose of audit	Summary of any Significant Findings	Implemented Actions	³Implementation Status
				Safety electric cables should be arraigned at construction site not to create danger for workers, Photo N8		Completed, mid. December 2024, Photo N5
				Safety ladder should be installed on construction site to avoid workers damage		The work was completed and ladder was removed, immediately, December 2024

2.2 Issues Tracking (Based on Non-Conformance Notices)

- 44. During the reporting period (July-December 2024), a total of 11 site visits were conducted under the USIIP/T6 program. These visits identified a total of 43 non-compliances, resulting in 10 non-compliance notices issued to the contractor by the ESs of SC and UWSCG/USIIP. Specifically, within the MAR-02 subproject, 8 non-compliances were identified and 3 non-compliance notices were issued to the contractor. During this period, under the USIIP/T6 MAR-01 subproject 35 non-compliances were identified, resulting in 8 non-compliance notices issued to the contractor. For more details, refer to Table 15 and A.
- 45. The contractors were always informed on the detected non-conformances and were demanded to improve on the deadline set and send photos of improvements, Corrective Action Plans (please see Annex C) were developed by contractors and sent to UWSCG/IPMO with improved photos of construction sites. Environmental team of HILL and UWSCG/USIIP monitored the improvements during the next monitoring visits. Corrective action plans were developed by contractors and improved photos of sites were send to SC and UWSCG.
- 46. A summary of the identified environmental issues for July-December 2024 under MAR-01 (LOT-01, LOT-02, LOT-03, LOT-04, LOT-05 and LOT-06) sub-project is presented in Table 16 below. There is still one open issues: (i) proper fencing of Jandari Reservoir. These non-compliances will be completed by the end of civil works in March 2025. All other non-compliances were corrected by contractor within the indicated deadlines.

Table 16: Summary of Issues Tracking Activity for Current Period MAR-01 (LOT-01, LOT-02, LOT-03, LOT-04, LOT-05 and LOT-06)

Total Number of Issues for Project	35
Issues Opened This Reporting	
Period	1
Issues Closed This Reporting	
Period	34
Percentage Closed	97%

47. A summary of the identified environmental issues for July December 2024 under MAR-02 sub-project is presented in Table 17 below. There is no open issues under MAR-02 sub-project, and all non-compliances were eliminated by contractor.

Table 17: Summary of Issues Tracking Activity for Current Period MAR-02

Total Number of Issues for Project	8
Issues Opened This Reporting	
Period	0
Issues Closed This Reporting	
Period	8
Percentage Closed	100%

2.3 Trends

- **48.** Information from reports for the previous period (January-June 2024) and for the current period is used to determine trends in environmental issues opened and closed under the USIIP/T6 sub-projects. The status of the main issues for the previous and current reporting periods is presented in Table 18 below.
- **49.** Although the total number of non-compliance increased from 35 (January-June 2024) to 43 (July-December 2024) during the reporting period, the number of outstanding issues

- including both projects (MAR-01 and MAR-02) decreased from 15% to 1% and mainly include the fencing of the construction areas, mainly Jandari Reservoir, temporarily during the construction works and after completion of construction.
- **50.** A summary of identified trends for the MAR-01 and MAR-02 sub-projects for the reporting period July-December 2024 compared to January-June 2024 is presented in Table 18 below.

Table 18: Summary of identified trends in environmental issues

Semi-Annual EMR	Total No of Issues	% issues Closed	% issues closed late
January-June 2024	35	85%	15%
July-December 2024	43	99%	1%

2.4 Unanticipated Environmental Impacts or Risks

51. There were no unanticipated Environmental Impacts and risks under USIIP/T6 during the reporting period.

3. RESULTS OF ENVIRONMENTAL MONITORING

3.1 Overview of Monitoring Conducted during Current Period

- **52.** During the reporting period Environmental measurements of Noise level and ambient air Quality were carried out by contractor under MAR-02 sub-project.
- 53. Noise standards defined by IFC/WHO 1999, are presented in the Table 19 below.

Table 19: Noise Level Guidelines

Noise	dBA National Regulations		dBA WHO	
Receptor	Daytime 07:00 - 22:00	Nighttime 22:00 - 07:00	Daytime 07:00- 22:00	Nighttime 22:00- 07:00
Residential; institutional; educational	55	45	55	45
Industrial; commercial	70	70	70	70

54. Air pollution standards by IFC/WHO 1999, are presented in the Table 20 below.

Table 20: Air pollution Guidelines

Contaminants	IFC/WHO Guideline Value (Limit) mg/m³))		
1	2		
	(*IFC does not have a standard for "inorganic dust". Instead IFC applies standards for PM2.5 and PM10).		
Inorganic dust	PM10 – 0,02/1 Year		
	0,05/24 Hour		
	PM2,5-0,01/1 Year		
	0,025/24 Hour		
Carbonic monoxide	n/a		
Nitrogen dievide (NO.)	0,2/ 1 Hour		
Nitrogen dioxide (NO ₂)	0,04/1 Year		
Aldehyde	n/a		

55. Georgian Standards for noise level is presented in the table 21 below.

Table 21: Georgian Standards for Noise Levels

Purpose/use of area and premises	Allowable limits (A-Weighted Decibels (dBA))	
	L_{day}	23:00 - 08:00

	08:00 - 19:00, Day	Evening 19:00- 23:00	L _{night} , Night
Educational facilities and library halls	35	35	35
Medical facilities/chambers of medical institutions	40	40	40
Living quarters and dormitories	35	30	30
Hospital chambers	35	30	30
Hotel/motel rooms	40	35	35
Trading halls and reception facilities	55	55	55
Restaurant, bar, cafe halls	50	50	50
Theatre/concert halls and sacred premises	30	30	30
Sport halls and pools	55	55	55
Small offices (100m³) – working rooms and premises without office equipment	40	40	40
Small offices (100m³) – working rooms and premises without office equipment	40	40	40
Conference halls /meeting rooms	35	35	35
Areas bordering with houses residential, medical establishments, social service, and children's facilities (>6 story buildings)	55	50	45
The areas bordering with hotels, trade, service, sport, and public organizations	60	55	50

Note: in case noise generated by indoor or outdoor sources is impulse or tonal, the limit must be 5dBA less thanindicated in the Table.

56. Table 22 shows the threshold values of the major air pollutants as defined by the GEO, IFC and EU legislation.

Table 22: Ambient Air Quality Standards

		Limit (μg/m³)			
Parameter	Averaging Period	Maximum Per- missible Concen- tration (MPC) in Georgia	IFC Guideline Value	EU Ambient Air Quality Guide- lines	
	30 minutes	200	-	-	
Nitrogen Dioxide	1 Hour	-	200	200	
(NO_2)	24 Hours	40	-	-	
, ,	1 Year	-	40	40	
	10 minutes	-	500	-	
Sulphur Dioxide	30 minutes	500	-	-	
(SO_2)	1 Hour	-	-	350	
,	24 Hours	50	20	125	
Carbon Monoxide	30 minutes	5,000	-	-	
(CO)	24 Hours	3,000	-	-	
Total Suspended Par-	24 Hours	150	-	-	
ticulates (TSP) / Dust	30 minutes	500	-	-	
DM40	1 year	40	20	40	
PM10	24 hours	50	50	50	
DMO 5	1 year	25	10	25	
PM2.5	24 hours		25	-	
Ozone	8-hour daily max.	120	100	120	

57. The Georgian Standards for vibration are designed for human comfort. These are shown in Table 23 below. Note that no standards for building damage exist.

Table 23: Georgian vibration values

Average Geometric Frequencies of Octave Zones (Hz)	Allowable Values X0, Y0, Z0			
	Vibro-accele	eration	Vibro-spe	ed
	m/sec ²	dB	m/sec 10 ⁻⁴	dB
2	4.0	72	3.2	76
4	4.5	73	1.8	71
8	5.6	75	1.1	67
16	11.0	81	1.1	67
31.5	22.0	87	1.1	67
63	45.0	93	1.1	67

Note: It is allowable to exceed vibration normative values during daytime by 5 dB during daytime. In this table of incon-stant vibrations, a correction for the allowable level values is 10dB, while the absolute values are multiplied by 0.32. The allowable levels of vibration for hospitals and rest houses have to be reduced by 3dB.

58. Since no construction activities were undertaken within the CHI-01 sub-project during the reporting period, environmental quality measurements were not conducted under this sub-project.

Environmental Quality Measurement of noise, air quality, vibration under MAR-02 Sub-project

- 59. Environmental instrumental measurements of ambient air quality, noise and vibration within the framework of the MAR-02 subproject were carried out by the Contractor on 26 November 2024. The measurement of noise, vibration and particulate matter was carried out continuously for two hours. The results of the measurement are presented in the Tables 24 and 25 below.
- **60.** The measurement was carried out in the area of the construction site and in the nearest residential building, which is located approximately 50 meters away from the construction site. At the time of measurement, construction works were being carried out with medium intensity. During the measurement period, self-loading and loading vehicles moved on the construction site.
- **61.** The measurement process was not affected by any weather conditions (rain, wind). The air temperature during the measurements was as follows:
 - 2024/11/26 11 ^OC Relative Humidity 40%.
- **62.** The concentration levels of noise, vibration and particulate matter were measured in line with the requirements of Georgian Legislation and the methodology and procedures developed by the Company.
- **63.** As a result of studying the existing situation, two points were determined as measurement locations. Below are the measurement points of environmental quality indicators:

Table 24: The measurement points of environmental quality indicators

Noise Measurement	Construction Site (Measurement Location N1) Yard of the residential building adjacent to the project area (measurement point N2)	
Air Measurement	Construction Site (Measurement Location N1)	
Vibration Measurent	The balcony of the residential building adjacent to the project area	

64. The baseline measurements were performed to identify the levels of noise, vibration and major air pollutants.

Results of the Measurement of Noise and Vibration under MAR-02 sub-project on 25 January 2024 NOISE, MAR-02

- 65. As can be seen from the obtained data (please see Table 25 below), the noise level at point N1 is lower than the permissible norm of "NIOSH" (85 dBA) and is 47.9 dBA. The noise level recorded at point N2 (the area surrounding the house) is also lower than the permissible noise norm established by the legislation of Georgia and amounts to 43.6 dBA. As mentioned, during the measurement, construction works were being carried out with low intensity. During the measurement period, self-loading and loading vehicles moved on the construction site.
- **66.** According to the results of 5-minute intervals of noise measurement at measurement location N2 (near the residential house), noise exceeding the permissible norm was not recorded.
- **67.** At point N2 (near the residential building), the peak noise level was recorded in the five-minute interval from 17:05 to 17:10, which was 54.1 dBA.
- **68.** Noise and vibration measurement data N1 and N2 are presented in the table 25 and 26 below.

Table 25: Result of Measurements

	Measurement Parameter			Source of Pollution
	Norm of Georgian	Day	55	
	legislation (Adjacent to Residential house)	Night	45	
Noise	Norm of Georgian legislation (Commercial / Industrial Territory)	Day - Night	60	
dBA	Recommendation of the "US National Institute for Occupational Safety and Health" (NIOSH)	8 Hour	85	Construction Works
	Result - N1 Point (At the Construction site)	2 Hour	47.9	
	Result - N2 Point (At the Res. Buildint)	2 Hour	43.6	
Vibration	DIN 4150-3 Standard	5		
mm/s	Result (Maximum value recorded)	0.382		
	Allowable Concentration	24 Hour	25	

² The initial and final vibration data are relatively high, which is due to the touch of the device on and off button, as well as moving around the device. Therefore, the initial and the final data are not used in the assessment.

Measurement Parameter			Value	Source of Pollution
PM2.5 (μg/m3)	Result	20 Minute	14	
PM10	Allowable Concentration	24 Hour	50	
(µg/m3)	Result	20 Minute	5	

69. The vibration level is much lower (about 20 times lower) than the value of the DIN 4150-3 standard. During the measurement, the highest vibration result was recorded at 0.38 mm/s.

AIR POLLUTION, MAR-02

Results of the measurement of the Air Pollution on 23 August 2024

- **70.** The levels of concentrations of particulate matter in the ambient air is lower than the norm established by the legislation of Georgia and the norm/recommendation of the World Health Organization.
- 71. In the 20-minute measurement interval, the highest level of particulate matter was recorded as PM2.5 5 (μg/m3), and PM10 14 (μg/m3).
- 72. The highest concentration of particulate matter was observed in the sample taken at 15:49, which amounted to PM2.5 6 (μg/m3), and PM10 17 (μg/m3).
- 73. It should be noted here that the concentrations of particulate matter for the two-hour measurement period (and not for the 20-minute section) are PM2.5 5 (μg/m3), and PM10 13 (μg/m3).

Environmental Quality Measurement (noise, air, vibration) under MAR-01 Sub-project

74. There were no Environmental Quality Measurements of ambient air quality, noise and vibration within the framework of the MAR-01 (LOT-01, LOT-02, LOT-03 and LOT-06) subproject, since

there were minor construction activities under the above Lots of Mar-01 sub-projects during the reporting period.

Use Measuring Device Noise, vibration, Air Pollution under MAR-02 sub-project

Noise Level Measurements

- 75. The noise level measurements were implemented in accordance with the British Standard BS 7445-2:2003 'Description and measurement of environmental noise'. The dust concentration measurements in the ambient air were conducted in accordance to the EU standards.
- **76.** The monitoring points were selected, to represent the impact of the construction on local population as realistically as possible.

Noise Measurement Equipment

- 77. According to the above-mentioned standard, the following equipment was used during the noise level measurement activities:
 - Rion NL-52, First class noise measurement device;
 - Windscreen, WS-16;
 - Tripod;
 - SD Card;







Windscreen WS-16

3.2 Trends

78. During the reporting period Contractor always implemented Corrective Action Plans based on the Non-compliance Notices issued by UWSCG/USIIP and SC in accordance with the IEE/EMP, SEMPs requirements under MAR-01 and MAR-02 sub-projects, but still within the MAR-01/LOT-06 subproject, one additional mitigation measures is required, including the fencing of the Jandari reservoir after completion of Construction Works, please see Table 31 below.

3.3 Summary of Monitoring outcomes

79. Dust and Noise levels during the construction period under MAR-02 sub-project was not exceeded the existing standards of IFC/WHO, and therefore no additional measures are required. It should also be noted that measurements carried out at construction sites, were temporary and conducted during the daytime and no complaints were received from the local community during the reporting period.

3.4 Material resources Utilization

4.4.1 Current Period

MAR-02

80. During the reporting period (July-December 2024), active civil works were conducted only under the MAR-01/LOT-01, LOT-02, LOT-03, and LOT-06 and MAR-02 sub-projects. As a

result, material resource utilization is reported only for these projects. Please refer to Table 26 below for details on the MAR-02 sub-project.

Table 26: Quantity of Materials Received on MAR 02, December 2024

No.	Material	Quantity	Unit
1	Cement	1.3	t
2	Sand	140	m ³
3	Gravel (Quarry Kariani)	350	m ³

4.4.1 Cumulative Resources Utilization

81. Cumulative resources utilization of electricity, water and fuel for whole project life under MAR-01/LOT-04/LOT-05 is presented in the Table below.

Table 27: Cumulative Resources Utilization under MAR-01/LOT-04/LOT-05 Sub-project, December 2024

N	Utilized Resources	Monthly	Measurement		
	January-June 2024				
1	Consumption of Water	4020	M3		
2	Electricity	9600	kwt		
3	Gus	1467	L		
	July-Decem	ber 2024			
1	Consumption of Water	1030	M3		
2	Electricity	2300	kwt		
3	Gus	950	L		
	Total Whole Project Life				
1	Consumption of Water	5050	M3		
2	Electricity	11900	kwt		
3	Gus	2417	L		

3.5 Waste Management

3.5.1 Current Period

MAR-01 (LOT-04 and LOT-05)

82. CC for MAR-01 and MAR-02 sub-projects developed a Waste Management Plans and agreed with the MoEPA. The Contractor has signed an agreement with the Marneuli Municipality regarding provision of the waste containers, collection and transportation of household waste. In addition to that the contractor has signed an agreement with the licensed company "Sanitary" Ltd for collection, transportation and treatment of the hazardous waste. Temporary hazardous waste storage area has been arranged at the WWTP construction site. Different types of hazardous waste are kept in the restricted area (fenced and roofed) before transporting by the licensed waste transportation/treatment company. Information regarding the generation of waste during reporting period under the MAR-01 sub-project is given in the Table 28 below, relevant agreements are provided in Annex D to this report.

Table 28: Waste generated under the MAR-01 sub-project during the reporting period, July-December 2024

#	Domestic, hazardous Waste & Sewage	Estimated Volume	Storage Area	Licensed Company
1.	Household waste	3M ³	Bolnisi Municipality household	Bolnisi Municipality Cleaning
2	Printer toner	0.4 Kg	Final storage will be at private Company "Sanitary" Ltd but temporary they will be stored in temporary hazardous	Private Company ,,Sanitary" Ltd
3	Medical Wastes	0,5 kg/Liter	Final storage will be at private Company "Sanitary" Ltd but temporary they will be stored in temporary hazardous	Private Company ,,Sanitary" Ltd

MAR-02

83. Information regarding the generation of waste during reporting period under the MAR-02 sub-project is given in the Table 29 below:

Table 29: Waste generated under the MAR-02 sub-project during the reporting period, July-December 2024

Information about waste generated & disposed under MAR 02 Contract for the period July-December 2023 # Domestic/Hazardous Estimated Storage Area Name of Waste & Sewage Volume Licensed Company WWTP 1 Household waste Marneuli 11m³ construction Municipality sites Hazardous Waste 28 m3 WWTP Private Company construction "Sanitary" Ltd sites 3 Used tires Temporary A negligible amount waste storage area at the Workshop 4 Hydraulic and used oil A negligible Temporary amount storage waste area at the Workshop Oil drums 5 A negligible Temporary amount waste storage area at the Workshop 6 Printer tonner A negligible Temporary amount waste storage the area at Workshop 7 Medical Waste Temporary A negligible amount waste storage area at the Workshop

4.5.2 Cumulative Waste Generation

84. Cumulative waste generation under the MAR-02 project for whole project life is provided in the Table below.

Table 30: Cumulative Waste generated under the MAR-02 sub-project

January-June 2023			
#	Domestic/Hazardous Waste	Estimated Volume	Unit
1	Household waste	35	m ³
2	Hazardous Waste	70	m³
		July-December 2022	
1	Household waste	30	m³
2	Hazardous Waste	15	m ³
		January-June 2022	
1	Household waste	15	m ³
2	Hazardous Waste	8	m ³
		July-December 2021	
1	Household waste	10	m³
2	Hazardous Waste	3	m ³
		July-December 2023	
1	Household waste	15	m ³
2	Hazardous Waste	37	m³
	January-June 2024		
1	Household waste	13	m³
2	Hazardous Waste	37	m³
	July-December 2024		
1	Household waste	11	m ³

	January-June 2023		
2	Hazardous Waste	28	m³
	Total		
1	Household waste	129	m ³
2	Hazardous Waste	207	m ³

3.6 Health and Safety

3.6.1 Community Health and Safety

85. No community incidents have been reported by SC during reporting period under MAR-01 and MAR-02 sub-projects.

3.6.2 Worker Health and Safety

MAR-01/LOT-01, LOT-02, LOT-03 and LOT-06

- 86. Environmental Specialist of contractor under MAR-01 sub-project Mr. Levan Inashvili and H&S specialist Mr. Aleksandre Chitadze were performing day-to-day monitoring of ESHS on the Sites and press the Contractor to improve the provision of trench barriers in roads and to provide suitable work boots for the labour force.
- **87.** Health & safety and environment issues which were covered during the reporting period are as follows:
 - Excavation of trenches;
- 88. The Following Workers Health and Safety problems were identified during the site visits under MAR-01 (LOT-01, LOT-02, LOT-03 and LOT-06) sub-project by UWSCG/IPMO/USIIP and SC during the reporting period:
 - The walls of the deep trenches (>1.5m) by boards should be strengthened
 - Workers at high altitudes on the reservoir do not wear safety helmets or safety belts

3.6.3 Community Health and Safety

MAR-01 and MAR-02 sub-projects

- **89.** The Following Community Health and Safety problems were identified during the site visits under MAR-01 and MAR-02 sub-projects by UWSCG/IPMO/USIIP and SC:
 - Construction sites should be adequately fenced after the completion of the construction activities (MAR-01/LOT-06, Jandari Reservoir)

3.7 Training

- 90. On site environmental and H&S safeguard trainings were conducted for contractor's environmental team of MAR-01 and MAR-02 sub-project by Environmental Specialists of UWSCG/USIIP and SC/HILL on a regular basis. Environmental specialists of contractors were introduced with all necessary safeguard requirements of ADB/SPS 2009.
- 91. On-job training were conducted on 12 September, 20 December 2024 by Environmental Specialist Ms. Kate Chomakhidze and ES of SC/HILL Mr. Nikoloz Neparidze after the inspection of the construction works under MAR-01 and MAR-02 sub-projects. Main issues raised during the site visit and training topics were: the walls of the deep trenches (>1.5m) by boards should be strengthened; Workers at high altitudes to use safety helmets and safety belts. The aforementioned training was attended by representatives of the CC and CS teams for environmental protection and H&S.
- **92.** Contractors developed Corrective Action Plans to address nonconformities identified during the site visit and sent them to SC and UWSCG.

4. FUNCTIONING OF THE SEMP

- 4.1 SEMP Review (prepared and updated under USIIP/T6, including CHI-01, MAR-01 and Mar-02 sub-projects)
- **93.** The SEMP for Chiatura's water supply network was prepared and approved in January 2020 and further updated and approved during the reporting period, in August 2020 due to changes in the project design.
- **94.** The following SEMPs have been prepared and approved under CHI-01 and MAR-01 sub-project during the previous reporting periods:

CHI-01 Sub-project:

- SEMP for CAMP site (approved in August 2018)
- SEMP for Sachkhere Reservoir (approved in August 2018);
- SEMP for Bisi Reservoir (approved in September 2018);
- SEMP for Lezhubani Reservoir (approved in September 2018);
- SEMP for Navardzeti Reservoir (approved in September 2018);
- SEMP for Perevisy Reservoir (approved in September 2018);
- SEMP for Rustaveli reservoir (approved in September 2018);
- SEMP for Tekhisa Reservoir (approved in September 2018);
- SEMP for Chiatura Well fields (approved in November 2018);
- SEMP for Chiatura Water Supply components (Avarioni&Sapari) (Approved in 10 August 2020)
- **95.** The following SEMPs have been updated due to the changes in project design under CHI-01 sub-project.
 - SEMP for Sachkhere reservoir (December 2019);
 - SEMP for Bisi Reservoir (December 2019)

MAR-01 sub-project:

- SEMP for Jandary Reservoir (approved in March 2019);
- SEMP for Kolagiri Pumping Station (approved in March 2019):
- SEMP for CAMP (approved in May 2019)
- SEMP for City Reservoir (approved May 2019)

MAR-02 sub-project:

SSEMP for MAR-02 (approved in March 2020)

Updated SEMPs under MAR-01 sub-project

- SEMP for MAR-01 (LOT-01/LOT-02/LOT-03 and LOT-06) (September 2022)
- SEMP for MAR-01 (LOT-04/LOT-05) (September 2022)

96.	All SEMPs were prepared by Contractor, endorsed by SC and approved by UWSCG. SEMPs were reviewed/commented by the ADB.

5. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

5.1 Good Practice

97. During the reporting period, relations between UWSCG/IPMO/USIIP, supervisory consultants, contractors and local communities were improved to avoid further inconsistencies within the USIIP/T6 subprojects. The Contractor always provides the visitors to the Marneuli WWTP construction site with personal protective equipment, safety vests and helmets.

5.2 Opportunities for Improvement

98. During the reporting period, IPMO improved tracking of corrective actions. Close monitoring, guidance and communication between PIU, SC and CC has been improved to avoid inconsistencies and improve the current situation. Issues identified during the previous SAEMR, July-December 2023 were taken into account by UWSCG/USIIP and SC/HILL.

6. SUMMARY AND RECOMMENDATIONS

6.1 **Summary**

- 99. Individual and joint on-site monitoring activities were conducted by Environmental Specialists of UWSCG/USIIP Ms. Ketevan Chomakhidze and Mr. Nikoloz Neparidze Environmental Specialist of SC/HILL.
- 100. During the reporting period (July-December 2024), a total of ten site visits were conducted under the USIIP/T6 program. These visits identified a total of 35 non-compliances, resulting in 7 non-compliance notices issued to the contractor by the ESs of SC and UWSCG/USIIP. Specifically, within the MAR-02 subproject, 15 non-compliances were identified and 3 non-compliance notices were issued to the contractor. During this period, under the USIIP/T6 MAR-01 subproject 20 non-compliances were identified, resulting in 6 non-compliance notices issued to the contractor.
- **101.** No Environmental Quality Measurement was conducted under CHI-01 sub-project as there were no construction activities under the project during the reporting period.
- **102.** During the reporting period environmental quality measurements of ambient air pollution and noise level were conducted under MAR-01 and MAR-02 sub-projects on the monthly (Mar-02) and semi-annual basis (Mar-01).
- **103.** Table 31 below provides more detailed information about the Recommendations to Address Environmental, Social and H&S Non-Compliances identified during the reporting period, July-December 2024 under USIIP/T6 sub-projects.

6.2 Recommendations

- **104.** During the reporting period, July-December 2024, the USIIP/T6 was implemented in accordance with the requirements of ADB SPS 2009 and the National Legislation.
- **105.** Recommendations for the implementation of USIIP/T6 during the next reporting period January-June 2025 are provided in the Table 31 below:

Table 31: Recommendations to Address Environmental Issues under USIIP/T6 subprojects

Recommendations under MAR-01 Recommendations MAR-01 (LOT-01/LOT-02/LOT-03/LOT-04/LOT-05/LOT-06)	Implementation Status and Date
MAR-01/LOT-06 Fencing of Jandari Reservoir, installation of the information signs	Instruction are given to contractor to conduct relevant mitigation measures by the end March 2025

106. Conduct bi-annual quality measurements monitoring of Noise and Air quality under MAR-02 project at the WWTP construction site and nearest sensitive receptors. The schedule of environmental quality measurements to be carried out during the next reporting period, until the end of June 2025 is presented in the Table 32 below.

Table 32: Conduct Monitoring of Environmental Quality under MAR-02 sub-project

Parameters	Quarterly measurement
Dust	June 2025
PM _{2.5} and PM ₁₀	June 2025
Vibration	June 2025
Carbon monoxide	June 2025
Nitrogen dioxide	June 2025
Noise	June 2025

- **107.** The Post-construction Environmental Audit Report to be prepared for MAR-02 subproject in July 2025
- **108.** The Post-construction Environmental Audit Report to be conducted in April 2025 under MAR-01 sub-project.

ANNEXES

ANNEX A: PHOTOS OF SITES

MAR-02, CONSTRCUTION OF WWTP IN MARNEULI

Photo N1 Marneuli WWTP



Photo N2 Marneuli WWTP



Photo N3, Marneuli WWTP



Photo N4 Marneuli WWTP, ADB's Environmental Safeguard Mission, 26 September 2024





PHOTO N5 – MAR-01 – (LOT-01, LOT-02, LOT-03 and LOT-06)

Photo N1 – Jnadari Reservoir



Photo N3 – MAR-01, Construction of the Pumping Stations in Bolnisi



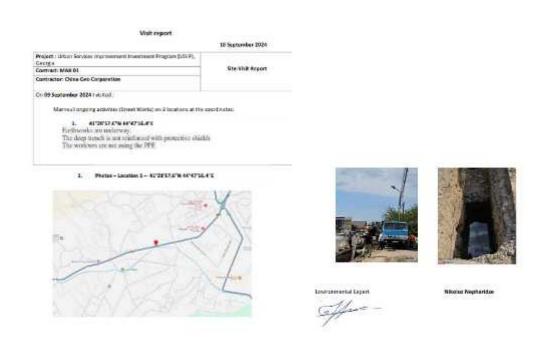


ANNEX B: NON-COMPLIANCE NOTICES

NON-COMPLIANCE NOTICE, MAR-01, 8 AUGUST 2024



NON-COMPLIANCE NOTICE, MAR-01, 9 SEPTEMBER 2024



NON-COMPLIANCE NOTICE, MAR-01, 12 SEPTEMBER 2024

Non-Compliance Notice, UWBCG

ONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEMS IN MARNEUL AND SEWERAGE SYSTEM AND COLLECTOR IN BOLINIS; USIFITE/CW/2022/MAR-01 Project USIRP
Contract Not LOT-91, LOT-92, LOT-93 and LOT-96
Contractor Chira Geo-engineering Corporation (CGC) (Peoples
Republic of Chiral) INCOMES CHARMS
SUPERIND COMMUNICATE HELL
REFERENCE:
TOORNITHISCTION OF WATER SUPPLY AND SEWERAGE
SYSTEM IN MARENULY.

This motice is to arbitrary you, the Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented ergently.

NON-COMPLIANCE

- Adequate and sufficient quantity of Safety/warning signs/bapes and trench side transers around of deep open transfers should be installed to avoid accident of workers on construction site.
- of diego open handles ahould be installed to used accident of elements on construction rate. (Photo N1)
 Walls of the deep trenches (P1.5m) should be strengthened by odequate and sufficient quantity of boards to avails function of the soil and accidents (ventions damage) (Photo N2, Photo N3, Photo N4). Photo N4, Photo N4, Photo N4, Photo N4, Photo N4, Photo N4, Photo N6, Pho

- bifurning all manders and businesses about the nature and charters of any work well in advance as that they can make necessary proparations in received. The construction can must be constructly watered to reduce dust generation, watering of the madeboute to carefully managed and maliformed, so that the waters and finding of water used is correct and water our off does not make the way into watercorrect. Occupances about the year that the water can off does not make the way into watercorrect. Occupances about the provided the focal magnitude to these cases so have a mid-businesses. Workers without PPE





All these conditions have to be considered bigority by continuous and Separate	
Date of sile visit. 12 September 2024	
Kate Chomeldedes, Environmental Consultant (AASCGALSIP	

NON-COMPLIANCE NOTICE, MAR-01, 16 SEPTEMBER 2024



CHINA GEG-ENGINEERING CORPORATION Compis Regional Office, Name 189, 77 Face, Block III. No. 8 Tamapulovik Re., Thins, 9177

Attention, No. 1.1 Allows, Firsted Messages

Golard Water Suggly Computer of Grought (CWRCS)
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Solving Courtes of URIP/NoCW/NOS/LS9648-40

Subject: Unselfalactory rately conditions and had quality of works

The engineer is noting that, despite coveral imprings, the current works on 10 Mag street in Marinada are constrained being control cast where subspaces notice conditions. Armony other three, through its or being conditions in that of adjustage parameters of the remains all the methy signals are inserfaced, this way parting at rick not selfs works but the population that could be much could.

It should also be rested that the quality of the performed works is not as accordancy with the requirements of the Counter, so the backlifting of the transfer is not being close as layers, one is a properly compared.

Once again, we intense you to work according to Contract specifications and to solvent a plan on know you impact to contact the already backfilled netwhen

Your lishfully.

THE MONTO

Namedra Diigh Shekhawai Kugimur'a Representativa (Chief Bandest Gagimur 168 International Constitutiv

Each: Three phones upon viewing assemble may obtained tion Mr. Graga Kalabalia, Departs Descript of UWSCO



NON-COMPLIANCE NOTICE, MAR-01, 26 SEPTEMBER 2024





















NON-COMPLIANCE NOTICE, MAR-01/LOT-04, LOT-05, 10 OCTOBER 2024











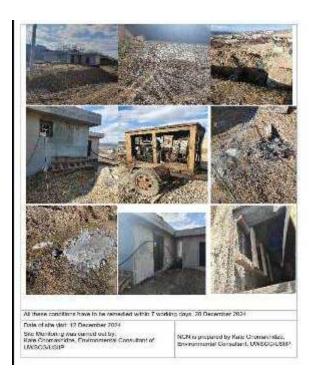


NON-COMPLIANCE NOTICE, MAR-01/LOT-04, LOT-05, 12 DECEMBER 2024

Non-Compliance Notice, UWSICG

Size Visit, 12 December, 2024





Non-Compliance Notice, UNISCG

Site Visit 17 December 2024





NON-COMPLIANCE NOTICE, MAR-02 - WWTP, 12 SEPTEMBER 2024





At these conditions must be arbitrated by both the contractor and the outerwise within 1 wicking days, by the partners 19, 2004.

Date of site wish: 12 Repleyeber 2024

Kale Chorushidas, Enimeresial Consultani (MISCONDER

NON-COMPLIANCE NOTICE, MAR-02 WWTP, 20 DECEMBER 2024



All these conditions trust be addressed by both the invited and of 27 becomber 2004.	or and the sequences within 6 working days, to
Date of site visit: 29 December 2024	
Keis Chamabbilias Environmental Consultani UNISCGUSIP	

ANNEX C: CORRECTIVE ACTION PLAN





"CONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEM IN MARENULI", LOT-01, LOT-02, LOT-03 and LOT-06

Corrective Action Report (CAR)

CAP No:

Issue Date:

12 December 2024 NCR Date and No: 17 December

2024

Construction of Jandari Reservoir in Marneuli

Non-Compliance

Corrective Actions Taken

 An appropriate fence must be installed along the entire perimeter of the Jandari Reservoir to prevent unauthorized persons from entering the construction site and equipped with lockable gate and proper warning and formation signs. (Photo No.



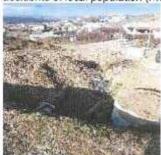
 Work is underway to cover the Jandari Reservoir with soil. To allow trucks access to the working area, the fence has been temporarily dismantled. Once the work on the ground is completed, the fence will be restored; The construction site should be graveled to ensure smooth and safe movement of workers and visitors (Photo No. 2);



The construction site is completely covered with gravel (Photo No. 1);



High visible safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents of local population (Photo No.3);



 The construction site is completely covered with a layer of gravel. (Photo No. 2);



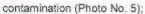
The construction internal area should be regularly cleaned and organized, construction materials should be placed separately and stored properly (Photo No. 4).

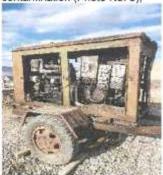


4. The construction internal area is cleaned (Photo No. 3);



 A power generator without a drip tray and/or concrete floor causes oil leaks and soil





 A power generator is no longer needed, it has finished its job and was sent to the workshop for repairs; 6. Burning of waste on the construction site is prohibited (Photo No. 6);



Burned waste was removed from the construction site (Photo No. 4);



 Concrete must be removed from the area and the soil must be reclaimed (Photo No. 7);



7. Concrete was removed from the construction site. The soil was reclaimed (Photo No. 5);



Safety electric cables should be arraigned at construction site not to create danger for workers (Photo No. 8);



8. The work was completed and the electric cable were removed (Photo No. 6),



 Safety ladder should be installed on construction site to avoid workers damage (PhotoNo. 9).



9. The work was completed and the ladder were removed (PhotoNo. 7).



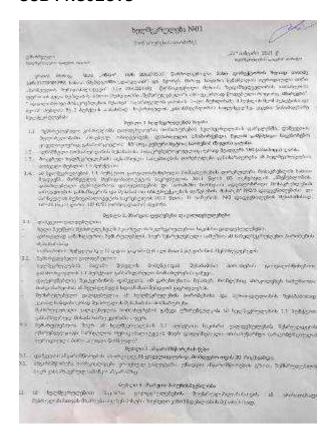
Prepared by:

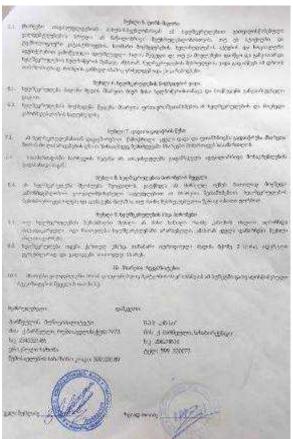
Giorgi Gvasalia

Contractor's Environmental Manager:

Signature:

ANNEX D: DISPOSAL OF HOUSEHOLD WASTE UNDER UNDER MAR-01 and MAR-02 SUB-PROJECTS





DISPOSAL OF THE INERT WASTE/SOILS DISPOSAL



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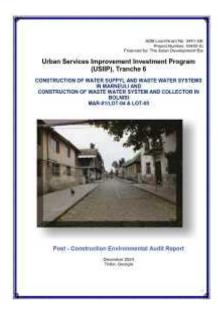
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ANNEX E: POST CONSTRUCTION ENVIRONMENTAL AUDIT REPORT, MAR-01/LOT-04 AND LOT-05



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1.1 Urben Services Improvement Investment Program (LASIP)
2.2 Description of the IMAN-61/LOT-04, LOT-65 Sub-groyed
1.3 Catagory of Project
2 A Location of Robis
IV. MAIN STAKSHOLDERS OF THE PROJECT
IV. SUMMARY OF PREVIOUS ENVIRONMENTAL INSPECTIONS
V_SUMMARY OF DESERVATIONS OF THE SITE DURING THE POST CONSTRUCTION ENVIRONMENTAL ADDIT
UI GREVANCE RESPESS MECHANIZM
UN. CONCILITIONS AND RECOVERNMENDATIONS
ANNEX 1-PORT-CONSTRUCTION ENVARONMENTAL AUGUST REPORT
ATMEN 2: NON-COMPLIANCE NOTICE, 12 DECEMBER 2024, MAR-61/LOT-04/LOT-05
ANNEX 3: GPM ORDER #196
ANNEX 4: COMPEAINTS LOG

I. INTRODUCTION

- This document represents the Post Construction Environmental Audit Report (PCEAR) for the Construction of Waste Water System and Collector in Borleis (AMR-01). LOT-04, and LOT-05) under the Urban Services Improvement investment Program (USEP).
- 2. Contract No. P43405-ICB-MAR-01 for the implementation of the MAR-01 Continued No. 1943-05-108-MAR-01 for the implementation of the MAR-01 sub-project. Townstruction of Water Supply and Water Water Supply and Water Supplems in Marmalli and Construction of Water Supplems and Collector in Martinal Supplems (Tazerfolger). The origination complete date for the contract sum March 29, 2005. This contractor proposed an extension of 290 days, one the remed completion date was set for Electorist 2011. However, the contractor failure to complete the project within the revised Simplem. The progress had been determined primer the September 2020, from they, the contractor slope all work on the site on June 14, 2001 and the contract was terminated.
- In light of the above, it was decided to entraurem a new tender and divide the MAR-UT sub-project into air lobs. Lists 04 and 50 were designated the the construction of the westerwater opporten and obserts in Bohnal. More detailed information about the MAR-UT sub-project can be found in Chapter II - Project Description below.
- 4. The contract for the implementation of L4LO4 and L6L05 under MAR-01 sub-project has been awarded to PCLAT Yol Yagi Santor to Ticanel Anouro Solosi (Turkey). Physicial works had started in lot 4 and 3d 5 in Globber 1922. Project completen state was March 2024. Constitution service have not been completed by the teach 2024 and were contributed until the end of haveable 2024, remaining works were implemented under the government financing as MFF was clobed in March 2024.
- 5. The Post Construction Audit Report is being prepared to compay with the 2009 ADIT's SPS and Georgian legislation, including surfequents requirement and arms to identify past and present concerns from the production and business activities of Project Company that related to impacts on environment. The specific objectives of the audit can be automatical an follows:
 - Dearriere and early whether all erretomental repairments, orders and constraints, prescribed in EECEW and GSEWs have been advised to during the constraints plants.
 Defences and varify whether the religiation actions and rehabilitation requirements contained in the EECEWs and



ABBREVIATIONS

ADB	Asian Development Bank
DEPRP	Department of Management of Projects Financed by Donors Organizations
DPIP8A	Department of Permits, Environmental Protection and Social Affairs
EA	Executing Agency
EARF:	Environmental Assessment and Review Framework
EHS	Environmental Health & Salety
EIA	Environmental Impact Assessment
EIP	Favironmental Impact Permit
EMP) SSEMP	Environmental Management Plant Site-Specific Environmental Management Plant
ES	Esylvonmental Specialist
GeG	Covernment of Georgia
GNC	Cricvania Redress Committee
GRM	Grievance Redress Mechanism
IA.	Implementing Agency
IPMO	Investment Program Managament Diffice
)EE	Initia Environmental Examination
MFF	Multi-transfer Parancing Pacify
MoEPA	Ministry of Environmental Protection and Agriculture
MoRDI	Ministry of Regional Development & Infrastructure
NEA .	National Environmental Agency
OUSC	Open Joint Stock Company
PCEAR	Post Construction Environmental Audit Report
8C	Supervision Consultant
USIP	Urban Sector Improvement Investment Program
UWSCG	United Water Supply Company of Georgia
WS	Water Supply
W88	Water Supply & Sewerage
WWP	Waste Management Plant
WS	Water Supply

SSEMPs have been appropriate and successful to prevent or control environmental poliution and/or damage

- Ensure that an appropriate environmental monitoring and control program exists to follow up on mitigation and rehabitation works completed during the construction phase.
- To identify any shortcomings in the SSEMP and EMS system implemented during the construction phase and to recommend attentions to the EMS applicable to the operational phase

II. PROJECT DESCRIPTION

\$11 THREW REPORTS WINDOWS SWEET SWEET SPECIAL PRODUCTION OF SHEET

- 8. The Union Services interference investment Program was developed on the General and a respective to the fact of chaquate sealor selfs such a self-or sealor service (see an experiment) and a continuous or union of the eight TOL in decrease the Color Service of the eight TOL in decrease the Color Service of the eight of the Color Service of the European Color Service of the Color Service of the European Color Service of the
- T. The Insumitant Progress intercols infrastratives forcegit for desemblyment, causing, settlings-resistance of a series of neighborship, and improvements in a particular second prefer supply another sendators in one time. Sub-projects inhaldclass setting infrastructure series crude river and majusted infrastructure series. The present out these intrinsic. Bright seator intercellular out of the present out their intrinsic. Bright seator intercellular out of the property of the property

Tranche 6 of the Investment Program includes:

- Conduction of Water Supply and Water Systems in Marked and Conduction of State Water Systems or Conduction of State Water Systems and Collection to State Water Systems on Collection of State Water Systems From the Water Systems of Conduction of Water Water Treatment Plant for Marked and Serial in Marked Water Spaging Systems of Nickans (CH-EV).
 Conduction of Water Supply Systems of Nickans (CH-EV).

- Construction of Water Supply and Soverage System in Manual and Generage System and Collector in Samus Lat 4 and int 6. Shot Decodation of LOT-04, LOT-05 and occupy of works are pretented below.
- 8. Let 4. It inverse lower meteors is dismost pro-dismost in detecting separate haddedon devil is disent applie from Mannoth over seven most piech and had under LOT-64. Earlies and seven lives by AMELIE (MODIF C.600 must select and at its limited and commissioned from temporare and the substrated his to limited and commissioned. The component and the substrated his view of control control control control control control.
- IS An Yellal Environmental Examination (EE) was respected and prepared for Boless Waters Wester Project in June 2002 as for category B projects. A category is assigned to a project by its ment are affice corrections. Terrotice, and of the output, and adminishes to be undertaken under the Project foll under Category Blas well.
- Nd, in accontance with the requirements of the existing Notional legislature, no. EAA report was prepared and no partitioner, was required for the proposed project.

3.4 LOCATION OF SHOULD

17 Bonnai is located in the medic of the Masharona River, 500 meters above one must. 64 Alloresters them 7 felds. Masharon station on the Stamou-Visural files. It is mashry substanted on the gains, and the suchons part is on the filips featible. The eries of files only in 4603 ha. The city is build it share becomes from earth order. It has simply and pareful strokes. Their are 50 pitches and 13 delays in fields.

Figure 1: Location Map of the Proposit



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- 19. Based pp the place reserved. The nine six attach for fractilation of 1640-OV Lin, On and 1,540 th op-paged for been awarded in COUAT for free States or Foundations. State Interfer, Physical section has been failed and 4 and of 5 in October 2021. The Interpretation contribute odes we set for Masses 2023. Seminant, seek the consideration with her between compacts 3th the act of March 2024, the present to Codemany sinks greatwest Participant, and the Additional Science.

- 44 Sound on the accelege ADS Developments Subsequence Probey (2000), non-regard Nath angles ASE's project Enterprey III. According to ADS 1870, 2000 prospored projects one for absorbed on Enterprey III due to the following management.

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HAMAIN STANDHOLDERS OF THE PROJECT

- 18. The main inclinations that are incurred in implementation of the SNP are:

 Executing against (BA) United Water Registy Company, of Company, of Omegan (UNYOSO) LLC

 Supervision Committee (BC) Supervision Committee (BC) Supervision MV, Neckerson Sneed (BC) Supervision MV, Neckerson Committee (BC) Sneed (BC) -
- 16 blain organizations involved in the project and related to environmental salinguetts are presented in the Table 1 Below.

Table 1: List of contrasts under the Project.

Organization	Name of man staff and Survivorsessing Specialist	Contact data (nativiting places and said alls) and address of the organization
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	Oversional Opportunit of No super and of Property Properties Opportunity Digest Head	Mr. Node Hadomatyk Tel 1900/01 191111 Fried Excellent demand
UNISCOLISMITTE	Controvered Specialist	No. Parison Committee Tel: 1906 OFF 500-009 Forest photography for



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th-gardestess	Name of main staff and Resimperated Resident	Contact data (including phone and web- olis) and address of the organization
Supervision Consultant Hill International N.V. (Netherlands) PMCSI Policy and Management Committing Group and JSC Georgian Water Project (Georgia)	Evenore et al Specialis	No. Nicolog Negrounds Tex-1065 200 2-46821 C-ross Telescolor-Co-glamage in references
Politicol Yapi Serapi ve Nooref Branch in Georgia (Turkoy/Georgia)	Endonweld Specialisi	Mr. samino atravatare Tal 1905 586 4503900 E-mail: santroatora-condiguest con

IV. BUMMARY OF PROVIDUS ENVIRONMENTAL HISPECTIONS

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- Non-complement various same based by BE of BC and UNIDOUSNUT after transforms of constructor size of minimum, and same to the contractor. The sample MCM installations for the right on December 10 and additional to be reported to the contractor. The sample of the same transforms are Areas IVI, Correctine Arction Fairs wave regulated hast contractor, accept and specifical private stress for Arctical States. The mass shallful concerning the same transforms on the subspecial states of the States of States. The mass shallful concerning areas.

 - Interest can be subspecies with the following election.

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- SUMMARY OF DESERVERIDING OF THE SITE DURING THE PROFE CONSTRUCTION ENCYCONDMITAL AUGST

- At Fempey Statture we forced and it is transmitted for strongers as yet in domain, arough to ended the calls (seed befole and other profess in Figures 1-2





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Fig.3: Construction CAMP during the Construction











Sta terriforeutroads more restored in a Shely manner after completion of the construction sector (please use before and after Protes in Figure 5-6 below).

Fig.5: Ream during construction of Weste Water Netv







26 All surplus weeks was recicus from the construction area (please one before and effor postor in Figure 7-8 below).





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VI. GRIEVANCE REDRESS MICCHARDM

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- If alreads be membered state that complaints log, in available all each combination also and any affected person roughts the complaint log, present one APPEX of part submit to the contractor of each.
- 5. If the region of prevation instead on mobilities reported interest of functioners interest and produced on the control of the control o
- 6 to case the problem research the complete is not served within the two weets per-thot stage of previous restors. the individual concern can address the GRM Co.

which will make decision within two weeks period.

in case the problem raised in the complaint is not arrived within two weeks at the account range of grievance redress, the individual epicemed can address the Permanent Representative of the Asian Development Bank to Georgia.

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It should be emphasized that there are no unresolved complaints from the local copulation under the Bolins. WW sub-project. All issues have been addressed during the project implementation, and there are no outstanding complaints under the project.

VII. CONCLUSIONS AND RECOMMENDATIONS

- The commention of the White White Tankers and Cellanctor is Debut, under the MARROT-LOT-des CoT-des care project, is consistent. The system will be part and specification more than commenced on the international control of the stress where freedom and the part and specification more than commenced on the international of the stress where freedom and their is better than the stress of the Lot of an an international production, orders are stress for the original orders are stress than Lot of the stress of Conceiler 2020. And the original orders are not conspicious days are the freedom of the stress of the stress
- 22 Rapular traditioning from times carried out mining the constitution prima and MARS struct() albeid of all some proper (blobber 2022 the other albeid size () and 32 non-consplances years clarified during these less wise. A miner 2 to this report () yet in information about the rend-craying bed on the direct of the rend-craying the environmental raid and due controlled actions of their improvements.
- 27 As attachy road, most of the inpacts are associated with the periods and classical of conduction missions, proper disposal of construction water, protection of the date tending with proper partners and display, premeding public access to the purpose pattern, as well as fronting and postpoping the PS also with severage plays and information.
- 23 Tras Frai-Commission Environmental Audit was conducted as Cocombine 15, 2024 by the Districtionaryth Gosenbert of UMSCGIFNO to: Kale Commissions et ES of SCHELL McNicock Neutralia to achieve an involve of origination resolutions and policinal contribution, in advice and transfer involvementation of policination etitizes etil significantly solution for expectation against farinal report.
- 22. Takes 5 below provides a surroway of the rankuragianous plentified change the Profilementation between the fault conducted on Secretion 12. Occasion 2014 on and as the regulated secretion services, the responsible organizations and sides of transconness of the rankuragianous.

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ANNEX 3: NON-COMPLIANCE NOTCE, 12 DECIMBER 2024, MAR-01/L01-04/L01-0

Non-Complete Name (WRCS)

Project (EP)

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Secretarional Descriptions and Recording Section (relative)

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All these conditions have to be nemetted instructionly

Date of sile visit. 12 Decorate: 2024 Site Microtoning was carried out by: Kate Chomathidze, Environmental Consultant of UNISCOLUMEP

NCN is prepared by Kate Chomakhidze, Environmental Consultan, UWSC GIUSSP

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ANNEX 3: GRIM ORDER 4196

Writer Mater Supply Coopersy of Georgia, LLC

Deley, We there may Robert Wechminn under projects frammed by the Asian Development Back of Units Water Supply Company of Georgia, 11.C in arredome with Subgaust Podery Stammant developing by the Asian Development Back or 2007 and Period 5 of Asiant 8 for the Articles of Assantana Cantal Water Supply Company of Georgia, 11.C. Thereby Decreae.

- 4. These same Crimento de Georgia, LLC. Harriey Berrier.
 4. These same Crimento Reclaim Michanian in appround in reclaim gravitates substained by propin affected people thereinsten for included constructed desiring the implementation of groups. Channel by the Anna Development Bank.
 2. In First stage of grievation substained representatives of Campains Belations Desirated/versions: Service Office of Vocal Service Controllagional Hannih of Databel Water Sopply Congregory of Georgia, LLC, for obegoin to intensitate the most behavior and to desire the complaints in the treat approach by Annus vi of this Order and to admit in the Certained Review Constitute, which will remove the endounced computer within the two expels period.
 3. The Committee contributed by the Periot 2 of the Order to approach with the following composition:

- compound it in the Mininger Service Court Directs in it is expected terroried and of brief New Septe Congage of Verlaga, LLU. Committee Chiefman. It is Represented on Process Management Represented by Verlag Man Supply Congage of Process Management Represented in Verlag Man Supply Congage of Georgia, LLC.—Committee Management of Verlag Man Supply Congage of Georgia, LLC.—Directated Management of Process Management of Process Management of Theory of Georgia, LLC.—Directated Management of Representation of Committee of Representation of Committee Management of Process Management of Representation of Committee of Representation of Committee of Representation of Committee of Representation of the Verlag Management of Committee Management of Representation terrories of Committee of Representation of the Verlag Management (Committee September Of Georgia, LLC.—Committee September of Georgia

In case the grations caused in the complaint in not solved within the two weeks person at the Taxi-stage of givenance solvers, the individual convent can address the Committee enableded by Point 5 of the Subject, which wild easily objection within two worths period after it receives the complaint approved by Asset 8 of the Date.

compositive; as Describe of United Water Supply Company of Georgic, LLC - Commissions Chairman

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b) Deputy Director on Technical Issues of United Water Supply Company of Georgia, LLC — Commission Member:

Commission Member; 22 Departy Miscatur on Financial Issues of United Water Supply Company of Georgis, LLC — Commission Member;

alt Deputy Director on Commercial Issues of United Want Supply Company of Georgia, LLC

— Commission Member:

a) Hand of Legal Department of United Winter Supply Company of Georgia, LLC—
Commission Member:

f) Head of Favoremental Protection and Permits Department of United Water Supply
Company of Georgia, LLC—Commission Member:

g) Head of Commissions Office of Director's Appearans of United Water Supply
Company of Georgia, LLC—Commission Member:

f) Head of Commission of Office of Director's Appearans of United Water Supply
Company of Georgia, LLC—Commission Member:

f) Head of Commission Member:

i) Head

Heads of self-governing units be required to define a representative envisaged by the Sub-point "f" of Print 3 of this Order, who is employed in local self-governance in the field of social matters.

In case the problem raised in the complaint is not solved within two weeks at the second stage of grievance redees, the individual concerned can address the Permanent Representative of the Asian Devolupment Bank to Georgia at the following saldenss: Thillis, 41, G. Tabules Street, Tel. –995 32 225 fb. 19.

Order #122 dated April 30, 2014, On Grievance Redress Mechanism under projects financed by the Asian Development Bank, of Director of United Water Supply Company of Georgia, LLC, be declared null and mid.

Records Keeping Office of Administrative Department of the Company be charged with distribution of this Order among the territorial units. 10. The Order take effect upon signature

ANNEX 4: COMPLAINTS LOG

საჩივრების რეგისტრიცია

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