

# Bi-annual Environmental Monitoring Report

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*Project Number: 43405-023*

*July-December 2017*

*Loan Number 2807-GEO (SF)*

## **GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM (TRANCHE 2) (FINANCED BY THE ASIAN DEVELOPMENT BANK)**

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## ABBREVIATIONS

<b>ADB</b>	Asian Development Bank
<b>DC</b>	Design Consultant
<b>DEPRP</b>	Department of Environmental protection, Resettlement and Construction Permit
<b>DIPDR</b>	Department of International Procurement and Donors Relations
<b>EA</b>	Executing Agency
<b>EARF</b>	Environmental Assessment and Review Framework
<b>EHS</b>	Environmental Health & Safety
<b>EIA</b>	Environmental Impact Assessment
<b>EIP</b>	Environmental Impact Permit
<b>EMP/ SSEMP</b>	Environmental Management Plan/ Site-Specific Environmental Management Plan
<b>ES/ SES</b>	Environmental Specialist/ Senior Environmental Specialist
<b>GoG</b>	Government of Georgia
<b>GRC</b>	Grievance Redress Committee
<b>GRM</b>	Grievance Redress Mechanism
<b>IPMO</b>	Investment Program Management Office
<b>USIIP</b>	Urban Sector Improvement Investment Program
<b>IA</b>	Implementing Agency
<b>IEE</b>	Initial Environmental Examination
<b>MFF</b>	Multi-tranche Financing Facility
<b>MoENRP</b>	Ministry of Environment and Natural Resources Protection
<b>MoRDI</b>	Ministry of Regional Development & Infrastructure
<b>PE</b>	Population Equivalent
<b>NEA</b>	National Environmental Agency
<b>SC</b>	Supervision Consultant
<b>UWSCG</b>	United Water Supply Company of Georgia
<b>WSS</b>	Water Supply & Sewerage

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## PART I – INTRODUCTION

### 1.1 Construction activities and project progress during the previous 6 months

#### A. General information about the program/SUBPROJECTS

1. The present Bi-annual Environmental Monitoring Report covers July-December 2017 time period.
2. 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.
3. The Investment Program will improve infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply and/or sewerage) in one town. Subprojects will rehabilitate existing infrastructure and/or create new and expanded infrastructure to meet the present and future demand. Water supply improvements will include source augmentation and head works, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works will include sewer network, pumping stations, main collectors and waste water treatment plants.
4. The outcome of the Investment Program is improved WSS services in these urban centers.
5. Tranche 2 of the Investment Program includes:
  - Construction of Anaklia Water and Sewerage Network (ANA-01);
  - Construction of Mestia Water and Sewerage Network (MES-02),
  - Construction of Anaklia Waste Water Treatment Plant (REG-02),
  - Construction of Water Supply and Wastewater Network in Ureki/Phase II (URE-01).

#### **Status of the projects financed under Tranche 2:**

- MES-02, Rehabilitation of Water Supply and Sewerage System in Mestia (completed)
  - ANA-01, Construction of Water Supply System and Sewerage Networks in Anaklia (completed)
  - REG-02 Anaklia Lot, Construction of Wastewater Treatment Plant in Anaklia (completed)
  - URE-01, Construction of Water Supply and Wastewater Network in Ureki / Phase 2 (on-going)
6. **Anaklia Water and Sewerage Network (Contract ANA-01).** The construction involved the supply and installation of approximately 69 kilometers of water supply and 70 kilometers of sewerage networks and service connections to all residents and hotels defined for the year 2040 for Anaklia and Ganmukhuri villages (total projected population of about 25,600

people). The construction works under Contract ANA-01 started on 16th of January 2012 and was completed in May 2014.

7. **Mestia Water and Sewerage Networks (Contract MES-02).** The Construction rehabilitation of approximately 30 kilometers of water supply and 46 kilometers of sewerage network will cover the whole town of Mestia including the historic center and the future touristic zones covering all residents and hotels defined for the year 2040 thus benefiting total projected population of about 25,300 people. The construction works under MES-02 project started in October 2011 and was scheduled for completion by the mid of August, 2015.
8. Construction works have been completed, but there are some disputed issues related to the correction of defects. Contractor, JV of New Energy Ltd. & Enguri 2006 Ltd., submitted final payment request on June 2015. IPMO and the technical department of UWSCG has evaluated the request and carried out visual survey of construction works in Mestia. As a result it was found that the works were incomplete (i.e. missing installed manholes) and that the construction supervision Company - Eptisa should carry out additional site inspection. Based on the above mentioned SC/Eptisa conducted post-facto inspection in Mestia to re-evaluate the works, developed final statement and sent to the UWSCG. Final approval of the payment request will be done by UWSCG.

## **B. Post Construction Audit**

9. Mes-02 project Compliance Audit was carried out in November 2015. The main findings revealed during the post construction audit are presented in Bi-annual report of July-December 2015.
10. Ana-01 project Compliance Audit Report was prepared in September 2014. The main findings revealed during the post construction audit are presented in EMR of July-December 2014.
11. Reg-02/Mestia sub-project Post-Construction Environmental Audit will be conducted and the Post-Construction Environmental Audit Report will be prepared in the next reporting period and main findings will be presented in EMR of January-June 2018.

### **Reg-02 and Ure-01 projects**

12. Anaklia Wastewater Treatment Plant (Contract REG-02). The scope of works includes the construction of a Wastewater Treatment Plant (the treated wastewater to be discharged into Enguri River). The bidder was required to bid for the design and construction of the first stage of a modular wastewater treatment plant (WWTP) in Anaklia. The design is to cater for the full flow and pollution loads for the 2040 population equivalent of 25,611PE but the first stage of construction is to provide all treatment processes for only half of the flow and loads calculated for 2040. In addition to the WWTP, the Contractor shall design and build the pressure lines leading from the collector network to the WWTP and from the WWTP to the outlet into the river. The contract for construction of Anaklia WWTP was signed on September 22, 2014. The initial completion data was scheduled on December 6, 2016. The contractor was unable to complete the work within the project period and was imposed by penalties in accordance with the terms and conditions of the Reg-02 contract. Accordingly, the completion date was extended until September 2017. Currently, all construction works are already completed.

- 13. Construction of Water Supply and Wastewater Network in Ureki.** Construction of Water Supply and Wastewater Network in Ureki/Phase II (URE-01). The project is simultaneously financed from Tranches I, II and III. The main works under Tranche II will comprise laying of sewerage network with the total length of 70 km. (Contract was signed on 22 September 2014 and notice to proceed given on 8 December 2014. project will be completed in November 2017).

**C. Construction activities and project progress during the previous 6 months**

**Construction Activities during previous 6 months under Reg-02 and Ure-01 projects (July-December-June 2017) are as follows:**

**Table 1: Project progress during the previous 6 months (July-December 2017).**

**URE-01**

Site URE-01	Water Mains Installation
Works undertaken during July-December 2017	22.239 km of PE 100 pipes OD 710, SDR 11 installed – 99%
Site	Water network
Works undertaken during July-December 2017	43.25 km of HDPE pipes DN 25-560 – 86%
Site	Sewerage network
Works undertaken during July-December 2017	59.664 km of PE 100 and corrugated pipes OD 110-500 mm, SDR 11 installed – 85%
Site	Construction of Reservoir #1
Works undertaken during July-December 2017	Excavation Works – 100% Drainage Installation Works – 80% Reinforced Concrete Works – 95%
Site	Well Field
Works undertaken during July-December 2017	Drilling Works – 100%
Site	WS Pumping Station
Works undertaken during July-December 2017	Construction Works – 100%
Site	Sewer PE Pumping Station
Works undertaken during July-December 2017	Installation Works – 80%

- 14.** No construction Activities were carried out under Reg-02/Mestia Sub-project during the reporting period.



## **1.2 Changes in Project Organization and Environmental Management Team**

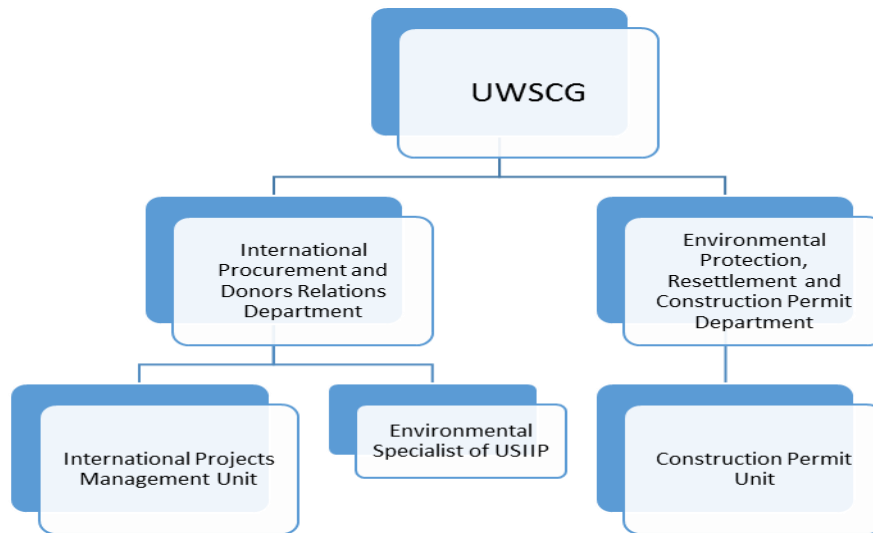
### **Agencies Involved in Investment Program Implementation**

- 15.** The following agencies are involved in implementing the Investment program: Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for management, coordination and execution of all activities funded under the loan. MoRDI has overall responsibility for compliance with loan covenants.
- 16.** United Water Supply Company of Georgia (UWSCG) is the implementing agency (IA), which is responsible for administration, implementation (design, construction and operation) and all day-to-day activities under the loan. In December 2016 the name of Investment Program Management Office (IPMO) - Strategic Planning and Donors Relation Department (DSPDR) changed and became an International Procurement and Donors Relations Department. A new Department of Environmental Protection, Resettlement and Construction Permit (DEPRP) was established under UWSCG as well. DEPRP replaced the existing Unit of Resettlement and Environmental Protection (UREP). DEPRP will include Unit of Construction Permission and will consist of five staff members. The new structural changes enter into force from January 2017.
- 17.** UWSCG as responsible IA for the project recruited a Supervision Consultant (SC) - Eptisa. The national and international team of consultants assists UWSCG in the supervision of the construction of subprojects under the USIIP. The SC also provides capacity building training to contractor staff in the management and operation and maintenance of the subprojects. The SC assists UWSCG in ensuring that the subprojects are implemented according to the specified standards. SC assignment also includes the supervising of the implementation of the environmental management plans.
- 18.** All mitigation measures during construction have to be implemented by the contractor and these are monitored by the supervision consultant (SC). To ensure the smooth implementation of EMPs and SEMP of subprojects, an Environmental Management Specialist (EMS) is employed by the SC/Eptisa. SC/EMS conducts routine observations and surveys, prepares quarterly environmental reports and submits these to UWSCG.
- 19.** The Contractor has the following obligations:
  - to prepare SSEMPs;
  - to employ Environmental Consultant responsible for developing and implementing the construction phase SSEMPs and for providing the corresponding information to UWSCG and SC;
  - to develop Solid Waste Disposal Plan and agreed the MoENRP and Local Government
- 20.** DC is responsible for developing and incorporation of mitigation measures in design and construction.
- 21.** The environmental specialist (ES) is hired by UWSCG under the USIIP to assist and advise the DEPRP in USIIP program implementation in compliance with the ADB Safeguard Policy Statement 2009 and National Legislation, and oversee the work of DCs and SCs in safeguards compliance. ES supports DEPRP in EARF implementation, in particular, reviewing IEE/EIA Reports and overseeing implementation of EMP/SSEMPs and in training and capacity-building

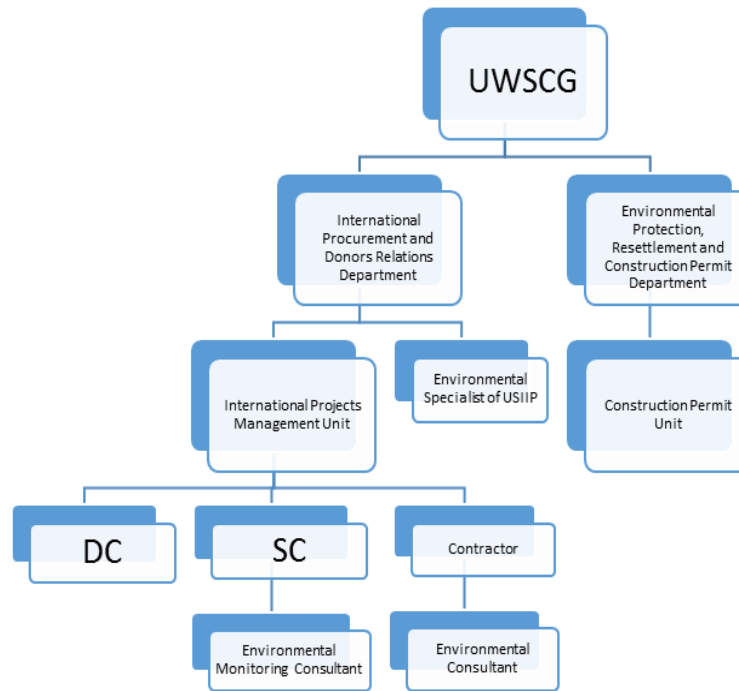
activities. The ES prepares bi-annual and annual environmental monitoring reports and submits to ADB.

- 22. DEPRP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently DEPRP is staffed with a Head of Department. Head of Construction Permission Unit and 3 specialists, those are responsible for resettlement, environmental protection and construction permission issues.
- 23. ADB is the donor financing the Investment Program Environmental management organization is shown in Figure 1 and Figure 2.

**Figure 1:** Structure Diagram of the Environmental Management Unit of UWSCG



**Figure 2:** Structure Diagram of the Agencies Involved in Investment Program Implementation



### 1.3 Relationships with Contractors, Owner, Lender, etc

24. Relationships with Contractors, Owner and Lender are considered as normal working relationships. At the working level, coordination of environmental issues has been satisfactory, the government agencies, UWSCG, consultants and contractors are in frequent communication and consultation.
25. Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for oversee progress and provide guidance on the Investment Program implementation; convene regular meetings in consultation with the SC and UWSCG; ensure compliance with Investment Program covenants.
26. Oversight of the USIIP with regards to environmental management is the responsibility of the environmental safeguards team, in particular UWSCG/DEPRP and the Environmental Specialist of USIIP.
27. The team has constant communication with the Supervision Consultant, Contractor, reviews/ comments all environmental reports submitted by DC, SC and contractors.
28. SSEMPs were prepared by contractor, endorsed by SC/Eptisa and approved by UWSCG/DEPRP.
29. SC is responsible for environmental capacity building, monitoring of implementation of SEMP and for developing quarterly reports. The Contractor has a full time Environmental Specialist who carries out day to day monitoring and submits monthly progress reports.
30. ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.

31. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/DEPRP, Eptisa and Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.
32. During the reporting period a GRC was created for URE-01 project consisting of representatives of UWSG, local self-governance, civil society and local households.
33. Below are the list of subcontractors of PERI Ltd (Ure-01 project) for Disposal of Municipal Waste and extraction of minerals (gravel, ballast, etc):
  - Ureki Municipality - contract was signed for disposal of Municipal Waste from Ureki WWTP site to the Ureki landfill
  - License issued to Ltd Peri by the MoENRP for mineral extraction (gravel, ballast) on the basis of the purchase agreement signed between the Ltd “Peri” and Ltd “Anagi”.
  - Contract was signed with hazardous waste disposal company Ltd “Sanitari” in June 2017.
34. Monthly site meetings have taken place with all Contractors during the reporting period, with a focus on progress and technical problems as well as environmental safeguard issues.
35. Under the Ure-01 project contractors has signed agreement with “National Environmental Agency” for the bi-annual monitoring measurements (dust, CO, NO2, SO2, noise) of all construction sites. Monitoring measurements were conducted in December 2017 (please see Table 5, Annex A)
36. Project organization for the awarded contracts listed above is given in the table 2 below.

**Table 2:** List of contracts under USIIP/T2 – ANA-01, MES-02, REG-02 and URE-01

Contract #	Sub-project Title	Employer	Contractor
Contract No: UWSC/ICB/CW/2012/ANA-01	ANA-01	UWSCG	Joint Venture of Peri Ltd and Modern Business Group LLC
Contract No: UWSCG/ICB/CW/2011/MES-02	MES-02	UWSCG	Joint Venture of New Energy LTD – Georgia and Enguri 2006 LTD (From 11 April 2013 the name of Enguri 2006 LTD has been changed into – New Construction LTD
Contract No: UWSCG/USSIP/ICB/CW/REG-02	REG-02	UWSCG	JV of Ludwig Pfeiffer Hoch- und Tiefbau GmbH & Co.KG (Germany) and ProtechnoSrl (Italy)
Contract No: P43405-ICB-URE-01	URE-01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)

## PART II - ENVIRONMENTAL MONITORING

37. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of USIIP on a regular basis, during the period July-December 2017. Unscheduled monitoring visits were carried out also and non-compliance notes have been issued to the contractor as needed. Mitigation measures to reduce major environmental impacts have been instructed to contractors during the monitoring visits.
38. The monitoring activities included monitoring of compliance of construction activities under URE-01 project sites to the SSEMP requirements.
39. Environmental Monitoring Specialist hired under the URE-01 subproject conducted the day-to-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Eptisa.
40. Environmental Monitoring Specialist of SC developed monthly monitoring reports for UWSCG/DEPRP based on the weekly reports submitted by Contractor, and based on environmental site inspection.
41. ES of USIIP performed monitoring of contractor's performance with the approved EMPs and SSEMPs, environmental standards and other environmental commitments of the contractor. ES developed bi-annual and annual environmental monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.
42. The USIIP's Environmental Impact Monitoring and Mitigation is carried out in accordance with the updated EMPs and SSEMPs prepared by the Contractors. The construction activities affecting the environment are as follows:
  - Excavation works
  - Removal of Surplus Soil
  - Removal of Vegetation
  - Backfilling of Trenches
  - Reinstatement Activities
43. In accordance with the IEE, and the accompanying Environmental Monitoring Plan (EMP), the Contractor is required to undertake parametric measurements and observations on air quality, noise, impact on flora and fauna and socio-cultural resources. Locations for the measurements were initially identified in the IEE. Accordingly, the monitoring guidelines were set as shown in the Table 3 below (Ure-01 is reported in this EMR):

**Table 3: Parametric Measurement Guidelines**

Parameters	Frequency & Location	Remarks
<b>Ure-01</b>		
Air Quality	Every 3 months Reservoir #1, Pumping Station, Networks, Transmission Main	Watering site during excavation works to avoid dust spreading  Conduct measurements of Dusts Mg/m <sup>3</sup> ; CO Mg/m <sup>3</sup> ;

Parameters	Frequency & Location	Remarks
		NO2 Mg/m3; SO2 Mg/m3
Noise	Every 3 months Reservoir #1, Pumping Station, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition  Limiting working hours to 8 am – 6 pm
Cultural heritage Disturbance to cultural resources	Every time along the alignment Archaeological & Cultural Properties	Contractor shall put in place a protocol for conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved.  Calling in the state archaeological authority if a find is suspected, and taking any action they require to ensure its removal or protection.

44. There are no protected areas, wetlands, mangroves, or estuaries. Trees, vegetation (mostly shrubs and grasses), and animals in the subproject sites are those commonly found in built-up areas. The geological structure of the area is stable and no potential land subsidence is foreseen.

#### D. Monitoring Measurement Data

##### Construction of Water Supply and Wastewater Network in Ureki / Phase 2 (Contract Ure-01):

45. The Environmental Measurements were carried out by the contractors at various construction sites in Ureki. The National Environmental Standard (Maximum Permissible Level) for Dust is 0,5 Mg/m3, for CO is 5,0 Mg/m3, for SO2 – 0,5 Mg/m3. Noise level is regulated by the Decree No. 297/N “On Approval of Environmental Quality Norms” (August 16, 2001 of the Ministry of Labor, Health and Social Affairs).
46. Noise impacts should not exceed the levels presented in Table 4, or result in a maximum increase in background levels of 3 dB at the nearest receptor location off-site where the values presented in Table 4 are already exceeded.

**Table 4: Noise Level Guidelines**

Noise	dB		dB	
	National Regulations		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

47. No monitoring measurements were carried out by Contractor under Reg-02/Anaklia sub-project during the reporting time as there were no construction activities.
48. The monitoring measurements were carried out by contractor/Peri (Ure-01) in various construction sites in November 2017 (See Table 5 (B) and Annex A). Location and data are included in the table below. The next monitoring measurements will be conducted in February 2017 and results will be reflected in the next January-June EMR of 2018. According to data received in November 2017 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of dust, CO, NO<sub>2</sub>, SO<sub>2</sub> and noise, therefore no additional mitigation measures are required. All measurements were carried out during the day time 13:00pm-15:00pm, since all construction works were performed only within the daylight hours period.

**Table 5: Monitoring measurements under Ure-01**

**Ure-01: Construction of Water Supply and Wastewater Network in Ureki**

N	Place of measurement	Samples #	Results				
			Dust Mg/m <sup>3</sup>	CO Mg/m <sup>3</sup>	NO <sub>2</sub> Mg/m <sup>3</sup>	SO <sub>2</sub> Mg/m <sup>3</sup>	Noise Db Daytime 07:00 - 22:00
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	55 Residential; Institutional; Educational  70 Industrial; commercial
1	Ureki X 0729977 Y 4653057	1	0.002	0.15	<0,001	<0,1	40.6
		2	0.007	0.28	0,001	<0,1	42.4
		3	0.012	0.76	0,001	<0,1	43.0

N	Place of measurement	Samples #	Results				
			Dust Mg/m <sup>3</sup>	CO Mg/m <sup>3</sup>	NO <sub>2</sub> Mg/m <sup>3</sup>	SO <sub>2</sub> Mg/m <sup>3</sup>	Noise Db Daytime 07:00 - 22:00
		4	0.003	0.27	<0,001	<0,1	40.9
2	Shekvetili X 0728847 Y 4650259	1	0.004	0.16	0,006	<0,1	45.1
		2	0.017	0.17	0,008	<0,1	53.0
		3	0.018	1.42	0,011	<0,1	53.3
		4	0.002	0.31	0,003	<0,1	44.2
3	Laituri X 0740378 Y 4646545	1	0.004	0.17	<0,001	<0,1	40.0
		2	0.015	0.2	0,007	<0,1	52.3
		3	0.015	0.22	0,006	<0,1	51.7
		4	0.011	0.17	<0,001	<0,1	40.2
4	Tsvermagala Reservoir#1 X 0731286 Y 4643708	1	0.001	0.23	<0,001	<0,1	40.5
		2	0.001	0.3	<0,001	<0,1	40.8
		3	0.005	0.61	0,003	<0,1	49.0
		4	0.002	0.32	<0,001	<0,1	40.5

### PART III - ENVIRONMENTAL MANAGEMENT

#### 3.1 The Environmental Management System, site-specific environmental management plan (SSEMP) and work plans

49. No SSEMPs have been prepared within the January-June 2017 under Ure-01 and Reg-02 projects. The brief description of SSEMPs prepared within the previous reporting period is presented below.

50. The following SSEMPs have been prepared under Ure-01 project:

- SSEMP for Reservoir #1;
- SSEMP for Ureki Pumping Station;
- SSEMP for Ureki Well Fields

51. The following SSEMPs have been prepared under Reg-02 project/Anaklia WWTP sub-project:

- SSEMP for Anaklia WWTP;



### 3.2 Site Inspections and Audits

52. Regular site monitoring visits were carried out during the reporting period by the Supervision Consultant - Eptisa and IPMO/UWSCG for Ure-01 project. Some monitoring visits were conducted jointly by environmental monitoring specialist of Supervision Company and environmental specialist of UESCG/USIIP. During the field visits a number of EHS issues were noted and brought to the attention to the Environmental Specialists and the H&S managers of contractors under the URE-01 project. Mitigation measures were then discussed with the contractor on-site and detailed instructions were given. Good Practice in compliance with Georgian and international H&S legislation were therefore enforced in accordance with the legislation and the Contractor's contract for URE-01 projects.
53. Site inspection monitoring and audit during the reporting period have been carried out on: 11 July 2017; 27-28 July 2017; 9-10 August 2017; 22 September 2017; 28-30 September 2017; 1-2 October 2017 and 8-10 November 2017. The schedule of conducted monitoring and audit during the reporting period is presented in the Table 6 below.

**Table 6: The Schedule of Conducted Audits and Monitoring during the Reporting Period**

#	Ure-01, Reg-02/Anaklia WWTP projects	Organization	Date
1	Day-to-Day Site Inspection	Environmental Specialists of Contractors under Ure-01 and Reg-02 projects	1 July – 30 December 2017
2	Site Monitoring and Inspection	Environmental specialist of USIIP and Environmental specialist of Eptisa	11 July 2017
3	Site Monitoring	Environmental specialist of Eptisa	27-28 July 2017
4	Site Monitoring	Environmental specialist of Eptisa	9-10 August 2017
5	Site Monitoring	Environmental specialist of Eptisa	22 September 2017
6	Site Audit	Environmental specialist of USIIP environmental specialists of Eptisa and International-Regional Environmental Safeguards Consultant Ms. Ketj Dgebuadze	28-30 September 2017
7	Site Audit	Environmental specialist of USIIP environmental specialists of Eptisa, International-Regional Environmental Safeguards Consultant Ms. Ketj Dgebuadze	1-2 October 2017
8	Site Monitoring	Environmental specialist of Eptisa	8-10 November 2017

54. A summary of the identified issues during the site monitoring by SC/EMS and USIIP ES, recommended mitigations and the status of implementation is presented in Annex D.

### 3.3 Non-Compliance Notices

## URE-01

55. The contractors were always informed on the detected non-compliances and were demanded to improve on the deadline set and send photos of improvements made together with the corrective action plans. Environmental team of Eptisa and UWSCG monitored the improvements during the next monitoring visits. Unimproved environmental issues were qualified as non-compliances and notices issued to contractor (Annex C).
56. A summary of the identified issues during the site monitoring by EMS/SC and USIIP ES, recommended mitigations and the status of implementation is presented in Annex D.
57. Non-compliance notices have been issued by SC/Eptisa under Ure-01 project in following date: 27-28 July 2017, 3 August 2017, 22 September 2017, 7 November 2017 (see Annex C).

### 3.4 Corrective Action Plans

#### Corrective Action Plans

58. For the purpose of resolving the observed issues, the corrective action plans have been developed by the contractor under Ure-01 projects. Sample CAP prepared by Contractors under Ure-01 is attached to the proposed EMR (See Annex G). The regular Environmental Meetings were also carried out with the participation of UWSCG/IPMO/DEPRP, Eptisa, contractors. During the meetings environmental issues and implementation of the mitigation measures were discussed. Agreements were reached that contractors should respond to the findings of the compliance monitoring carried out by SC and UWSCG.

**Table 7:** Actions taken for implementation of mitigation measures under Ure-01 by the end of December 2017.

## URE-01

Construction Site	Environmental Issues	Action taken
Ureki/Reservoir #1	Safety rules during high-altitude works should be respected to avoid workers damage	Completed (Contractor developed Corrective Action Plan, presented in Annex G)
	During high-altitude works special protection equipment should be used	
	Workers always should use complete set of PPE	
	There should be separate waste containers for municipal and hazardous waste at the site with signatures, placed at special designated area with roofing and concrete base	
Ureki/Network	All construction materials (pipes) should	Completed


Construction Site	Environmental Issues	Action taken
	be accurately stacked and stored properly at the special dedicated place	
	Special warning and information signs should be installed	Completed
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed
Ureki/Well Field	Protect River bank alongside the Ureki Well fields	SC/EPTISA has started working on design of river bank protection.
	Contractor to install fencings for Ureki Well Fields	Contractor has started fencing works on Well field (Please see Annex B – Photo of well fields).

59. These issues were captured in project photos and are shown in Annex B.

60. An annual Environmental Compliance Safeguard Review Mission was carried out on 28 September – 2 October 2017 to review environmental safeguards compliance of Tranche 2 project.

### 3.5 Actions taken to reflect the findings of ADB mission carried out on 28 September – 2 October 2017:

**Table 8:** Status of Findings of ADB Mission Carried Out on 28 September – 2 October 2017

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
Status of findings of ADB mission carried out on 28 September – 2 October 2017			
Ure-01 Construction of Reservoir #1 in Ureki			
	<u>Waste Management:</u> There were separate waste containers for municipal and hazardous waste at the site with signatures, but they were not placed at special designated area with roofing and concrete base/secondary drip tray	September 2017	Completed (Please see the improved site photo below)
			

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
			
	<p>Conduct training for new environmental specialist of Contractor (Gela Kiknadze) related to ADB safeguards requirements and SSEMP preparation by RETA International-Regional Environmental Consultant.</p>	<p>Q4 of 2017, Q1 of 2018</p>	<p>Will be conducted in Q1 of 2018, and training results will be reflected in EMR January-June 2018.</p>

61. Status of implementation of Action Plan of January-June 2017 is presented in Table 9 below.

**Table 9:** Status of implementation of action plan of January-June 2017

Specific issues: Recommendations Ure-01	Implementation Status
<p>Conduct monitoring of environmental quality under Ure-01 project at network site, Pumping Station and Rez-01 by the end of October 2017.</p>	<p>Completed in December 2017 Measurement data are reflected in proposed EMR July - December 2017</p>
<p>Carry out noise measurement at the nearest sensitive receptors and at the construction site by the end of October 2017.</p>	

### 3.6 Consultations and Complaints

#### *Public Awareness Activities*

- 62.** On December 9, Eptisa local PA consultant together with the UWSCG representatives met with local municipality, NGO sector and local population in Ureki. The aim of the consultation meeting was to raise the awareness on a project and discuss PA activities that Eptisa plans to implement in Ureki in partnership with UWSCG local office. Also to identify main issues and concerns of the population and topic on which they would like to receive more information.
- 63.** The first part of the meeting was dedicated to the project presentation. Main activities that Eptisa PA consultants implement in cooperation with the UWSCG PR department to raise the awareness of population on the project and safe and wise water consumption were also presented and discussed. Presentations were followed by Q and A session. Overall the meeting was very constructive and both representatives of the local population and local municipality were actively engaged in discussion. At the end of the meeting local self-governance representatives expressed interest to support the door to door campaign in Ureki by assigning their volunteers who can support Eptisa and UWSCG representatives in implementation of the door to door campaign. It was agreed that prior to the commence of the door to door in Ureki, Eptisa PA consultants will train local municipality volunteers who express interest to carry out the door to door campaign.
- 64.** At the end of the meeting the representatives of the local population and municipality offered recommendations and identified some challenges that need to be taken care in order to start the Public Awareness campaign for URE-01 and URE-02 projects.
- 65.** Recommendations identified during the meeting included:
- The local self-government representatives asked the construction company and Eptisa representatives to take into consideration that it would be important if the water supply system will also be constructed for the population living near the Tsvermagala reservoir.
  - Population near the reservoir is distracted by noise without having any benefits from the rehabilitation as process does not envisage water supply system rehabilitation for these settlements.
- 66.** It should be noted that at this stage of the project implementation and during the reporting period there were no changes in the project design, and new connections were not implemented within the framework of the Ure-01 project, but this issue is considered by UWSCG and changes may occur in the next reporting period in January-June 2018 and will be reported accordingly.
- 67.** As UWSCG does not have a service center in Ureki representatives of the local NGOs asked Eptisa local PA consultant to serve as a liaison and regularly update them about the project progress and activities. Also facilitate discussions and consultation meetings.
- 68.** The following challenges were also identified during the meeting:
- Number of exact beneficiaries of the project is not identified. Therefore the UWSCG representatives were asked to seek for this information from the company that provides electricity to the region.
  - The current project in Ureki envisages water and sewage rehabilitation for private houses only. But apart from the houses there are also 7 apartment buildings in Ureki. Some of them have an old individual sewage system in place but these systems in most cases are outdated. Local population asked UWSCG representatives to include these apartment buildings in the project as well.
  - Local population is also interested what will be the tariff of the water consumption for those sole proprietors who rent out rooms for tourists during summer period.

## **Public Opinion Survey**

69. During the reporting period Eptisa PA consultants implemented a small public opinion survey in Ureki to find out how well the effected population was informed about the project and what were the main issues, topics that the population was interested to receive more information on. Also how, through which communication channels, they would like to receive this information.
70. Special questioner was developed for the survey based on which 30 households were interviewed.
71. As a result of the survey it was identified that the local population is not sufficiently informed about the project but the interest towards the project is very high therefore population is eager to receive more information about the water supply and sanitation rehabilitation project. The water supply and sewage system rehabilitation project is very important for the population of Ureki, Shekvetili and Kaprovana as these are touristic areas and most of the households are either owners of hotels or rent houses or flats during the summer season.
72. According the survey the most important issues on which population would like to receive more information are: project timelines, water tariffs, quality of the potable water, and connection process to the main pipeline, sanitation and wise water consumption.
73. Most of the surveyed households would prefer to receive information about the project through information brochures, door to door campaign and consultation meetings.
74. Upcoming public awareness activities in for URE-01 and URE-02 project will be planned based on the survey results and in coordination with UWSCG and local self-governance.

## **Trainings carried out by Supervision Company/Eptisa**

75. On site environmental safeguard trainings were organized for URE-01 and reg-02 project contractors on a regular basis, during the site visits. Environmental specialists of the above mentioned contractors are instructed to follow safeguard regulations of ADB/SPS 2009 and EMP/SSEMP requirements. The main issues of discussion were the site management and implementation of mitigation measures in accordance with the SSEMP.

## **Grievance redresses mechanism (GRM)**

76. For the effective implementation of a GRM system under the USIIP, UWSCG issued special order (#122) on 30 April 2014. The "Establishment of GRM within the Framework of the Asian Development Bank Funded Projects" signed by the head of UWSCG gives clear instructions to every involved stakeholder how to act when affected people are impacted by the project. Detail procedures for GRM System is provided in Annex E.
77. During the reporting period up to 7 complaints have been received under Ure-01 projects. These complaints were related to the dust generation, problems concerning the water supply due to the damages on the water pipes, dropping of inert materials, waste soil or construction waste on the street. All complaints were resolved on the first level, by involving UWSCG/service center, contractor and Supervision Company.

## **PART IV – CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD**

### **4.1 Conclusions and recommendations**

78. As presented in this report, Tranche-2 of this Investment Program is being implemented in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF;
79. Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMPs and SSEMPs requirements under Ure-01 projects;
80. More detailed recommendations are provided in the table below.

**Table 10: Recommendations to address Environmental Issues under Ure-01 project**

Recommendations URE-01 Ureki	
<b>Ureki Reservoir #1</b>	
- Site internally should be arranged properly and cleaned regularly	Contractors is instructed to keep the standard and clean the sites regularly

#### 4.2 Action Plan for the next period

81. Conduct regular monitoring of sites in accordance with the EMP/SSEMP requirements.
82. SSEMP for Reservoir #3 will be developed after the final location is agreed and approved.
83. Conduct Post-Construction Environmental Audit and prepare Post-Construction Environmental Audit report Under Reg-02 project and reflect findings of the report in January-June EMR 2018.
84. Conduct monitoring of environmental quality under URE-01 project at Rez-01, pumping station, well fields and network sites, by the end of March 2018.
85. Carry out noise measurement at the nearest sensitive receptors and at the construction site by the end of March 2018.

**Table 11: The specific plan for environmental measurement (Ure-01) is as follows:**

Parameters	Quarterly measurement
Dust	March 2018
Vibration	March 2018
carbon monoxide	March 2018
nitrogen dioxide	March 2018
sulfur dioxide	March 2018
Noise	March 2018

ANNEXES

ANNEX A: MEASUREMENT DATA (REG-02, URE-01 PROJECTS)

ინფორმაცია  
 ატმოსფერულ ჰაერში დამაბიოსფერებელ ინგრედიენტთა კონცენტრაციის შესახებ  
 შპს „ფორ“ დაგეგმვა 2017

სივრცის აღმას- ადგომი, კოორდინატები	სივრცის N	ბმული დბ	ნაჯერი ნაბორწყალბადები	ნახშირბადის ოქსიდი CO	კონცენტრაცია მკგ			პოვრადის დოქსიდი SO <sub>2</sub>	პოვრადეწკალბადი H <sub>2</sub> S
					ნაჯერი შბუტის დოქსიდი NO <sub>2</sub>	მკგ	მკგ		
წყინბალა რეზერვუარი X 0731286 Y 4643708	1	40.5	0	0.23	<0.001	0.001	<0.1	<0.1	
	2	40.8	0	0.3	<0.001	0.001	<0.1	<0.1	
	3	49.0	<1	0.61	0.003	0.005	<0.1	<0.1	
	4	40.5	0	0.32	<0.001	0.002	<0.1	<0.1	
ურეკი X 0729977 Y 4653057	1	40.6	0	0.15	<0.001	0.002	<0.1	<0.1	
	2	42.4	<1	0.28	0.001	0.007	<0.1	<0.1	
	3	43.0	<1	0.76	0.001	0.012	<0.1	<0.1	
	4	40.9	0	0.27	<0.001	0.003	<0.1	<0.1	
შეგეკალი X0728847 Y4650259	1	45.1	0	0.16	0.006	0.004	<0.1	<0.1	
	2	53.0	<1	1.17	0.008	0.017	<0.1	<0.1	
	3	53.3	<1	1.42	0.011	0.018	<0.1	<0.1	
	4	44.2	0	0.31	0.003	0.002	<0.1	<0.1	
ლაიფური X 0740378 Y 4646545	1	40.0	0	0.17	<0.001	0.001	<0.1	<0.1	
	2	52.3	<1	0.2	0.007	0.004	<0.1	<0.1	
	3	51.7	<1	0.22	0.006	0.004	<0.1	<0.1	
	4	40.2	0	0.17	<0.001	0.001	<0.1	<0.1	

შეზღუდუბელები:  
 მისჯარი სპეკალბეკი

სპეკალბეკი

შუბანბეკელები:

ზარეკის დამინბეკების მონბეკორეზის დეკარბეკელები  
 უფროსი



ო.კენია

გ.მორგეკიას

მ.არბიბი



**Concentration of harmful substances in atmospheric**

Sampling place coordinates	Sample No.	Noise DB	Concentration mg/m <sup>3</sup>					
			Saturated hydrocarbons	Carbon oxide CO	Nitrogen dioxide NO <sub>2</sub>	Dust	Sulfur dioxide SO <sub>2</sub>	Hydrogen sulfide H <sub>2</sub> S
Tssermagala X 0731286 Y 4643708	1	40.5	0	0.23	<0.001	0.001	<0.1	<0.1
	2	40.8	0	0.3	<0.001	0.001	<0.1	<0.1
	3	49.0	<1	0.61	0.003	0.005	<0.1	<0.1
	4	40.5	0	0.32	<0.001	0.002	<0.1	<0.1
Ureki, X 0729977 Y 4653057	1	40.6	0	0.15	<0.001	0.002	<0.1	<0.1
	2	42.4	<1	0.28	0.001	0.007	<0.1	<0.1
	3	43.0	<1	0.76	0.001	0.012	<0.1	<0.1
	4	40.9	0	0.27	<0.001	0.003	<0.1	<0.1
Shekvetili X 0728847 Y 4650259	1	45.1	0	0.16	0.006	0.004	<0.1	<0.1
	2	53.0	<1	1.17	0.008	0.017	<0.1	<0.1
	3	53.3	<1	1.42	0.011	0.018	<0.1	<0.1
	4	44.2	0	0.31	0.003	0.002	<0.1	<0.1
Laituri X 0740378 Y 4646545	1	40.0	0	0.17	<0.001	0.001	<0.1	<0.1
	2	52.3	<1	0.2	0.007	0.004	<0.1	<0.1
	3	51.7	<1	0.22	0.006	0.004	<0.1	<0.1
	4	40.2	0	0.17	<0.001	0.001	<0.1	<0.1

**Executors:**  
Main specialist  
Specialist

**Agreed:**  
Head Environmental Pollution  
Monitoring Department

  
 T. Kicia  
 O. Kenia  
 G. Morgoshia  
 M. Arabidze

## ANNEX B: PHOTOS OF SITES

### Ure-01 Project Sites:

#### *Pumping Station*



#### *Reservoir #1*



Ure-01: Reservoir #1

New roof is installed above the waste bins

Ure-01: Construction of reservoir #1

**ANNEX C: Non-Compliance Notice**

**Non-Compliance Notice:**

**Ure-01**

**3 August, 2017 Reservoirs**

**Non-Compliance Notice**

<b>Project: USIIP</b>	<b>Non-compliance Notice</b> <b>UREKI</b>
<b>Contract No: URE-01</b>	
<b>Contractor: PERI</b>	
<b>Reference:</b> <b>UREKI – RESERVOIR</b>	
This notice is to advice you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented <b>urgently</b> .	
<b><u>NON-COMPLIANCE IN UREKI</u></b>	
<b>RESERVOIR</b>	
<ul style="list-style-type: none"><li>- Safety rules during high-altitude works should be respected to avoid workers damage</li><li>- During high-altitude works special protection equipment should be used</li><li>- Implementing works without special protection equipment is strictly prohibited</li><li>- Workers always should use complete PPE</li></ul>	



All these conditions have to be remedied within three days (by the 7 August 2017) by the prime Contractor (Peri).

Irakli Legashvili  
EPTISA - Environment

03.08.2017

**7 November 2017 Ure-01**

**Non-Compliance Notice**

<b>Project: USIIP</b>	<b>Non-compliance Notice</b>  <b>UREKI</b>
<b>Contract No: URE-01</b>	
<b>Contractor: PERI</b>	
<b>Reference:</b>  <b>UREKI – NETWORK</b>	
<p>This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented <b>urgently</b>.</p>	

**NON-COMPLIANCE IN UREKI**

**NETWORK**

All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place

Special warning and information signs should be installed

Trees (nearby territory) should be freed from pipes to avoid its damage

Piles dedicated warehouse should be fenced, protected and organized as suggested for warehouse arrangement



All these conditions have to be remedied within four days (by the 16 July 2017) by the prime Contractor (Peri).

Irakli Legashvili	
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EPTISA - Environment

**ANNEX D: IMPLEMENTATION REPORT ON THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) /INITIAL ENVIRONMENTAL EXAMINATION (IEE) MITIGATION REQUIREMENTS:**

Reference	Requirement	Action to date	Action required/comment
<b>Ure-01 project, Reservoir Site</b>			
	Safety rules during high-altitude works should be respected to avoid workers damage	Completed	Contractor developed Corrective Action Plan and improved the situation within the proposed deadlines (See Annex G)
	During high-altitude works special protection equipment should be used	Completed	
	Workers always should use complete PPE	Completed	
<b>Ure-01, Network</b>			
	All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place	Completed	Contractor is requested to keep the standards and to follow EMP requirements
	Special warning and information signs should be installed	Completed	
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed	
<b>Ure-01, Well Fields</b>			
	Protect River bank alongside the Ureki Well fields	SC/EPTISA has started working on design of river bank protection.	Contractor is requested to protect River Bank alongside the Ureki Well fields as soon as final design is proposed by Eptisa
	Contractor to install fencings for Ureki Well Fields	Contractor has started fencing works on Well field (Please see Annex B – Photo of well fields).	Contractor is requested to finalize fencing of Ureki Well Fields

## ANNEX E: GRIEVANCE REDRESS MECHANISM

### GRM System

1. There was no GRM system existing under USIIP before the Reg-01 project. Therefore, there was no structured mechanism and procedure to help the affected population and stakeholders send their grievances related to project-induced environmental impacts and nuisances to UWSCG or directly to the administrative bodies responsible for environmental protection.
2. For the effective implementation of a GRM system under the USIIP, UWSCG issued special order (#122) on 30 April 2014. The “Establishment of GRM within the Framework of the Asian Development Bank Funded Projects” signed by the head of UWSCG gives clear instructions to every involved stakeholder how to act when affected people are impacted by the project.
3. Any affected person can apply at a UWSCG local service centre through different ways, either by going to the service centre, sending a letter to the service centre, or calling a hotline. The operators of the service centre can respond by going directly to the affected person if they are disabled to get the written grievance from them.
4. During the first stage, complaints are discussed within two weeks of being received by the local service centre of UWSCG, based on the verbal or written complaint. In the first stage of grievance review and resolution, an authorized representative of the local service centre is responsible for ensuring the registration of the claim and its further processing. He/she engages in the grievance review and resolution process representatives (managers and environmental specialists) of Construction and Supervision Companies, and the representatives of UWSCG central office as required. At the local service centre, the affected person is provided with a queue number and then registers the grievance at the service desk.
5. The service centre operators, who are trained<sup>1</sup> in USIIP/Reg-01 project, register all relevant grievances with support of an online task management system, which tracks information on the grievance review process and the responsible person. Moreover, the operators fill the ADB complaints log with the registered grievance that coincides with local internal forms. This electronic intranet system<sup>2</sup> allows the UWSCG Tbilisi Office to immediately see claims. Therefore, claims submitted to any regional service centre can be monitored by the Head of the Investment Projects Management Office (IPMO), as well as the Head Department of Environmental Protection, Resettlement and Construction Permit, Maka Goderdzishvili.
6. When a grievance is solved positively in the first stage, the grievance is closed through an Agreement Protocol, which is reflected in the e-Document – Task Management System.
7. The grievance enters a second stage if it is not solved. In that case, the authorized representative of the local service centre will help the claimant prepare a package of grievance application documents for official submission to the Grievance Redress Committee (GRC). The package contains the following information:

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<sup>1</sup> UWSCG and Supervision Consultant (Eptisa) conducted trainings for service center operators covering general procedures of GRM functioning in order to ensure proper coordination of different departments.

<sup>2</sup>The **eDocument - Task Management System** was developed by LEPL Financial-Analytical Service of the Ministry of Finance of Georgia. It is an innovative electronic document and task management mechanism for electronically processing of documents. Used by almost all the major budgetary organizations in Georgia, the eDocumentservice offers an opportunity to manage, find, and track documents for information-intensive organizations.



- Name, ID, address and contact details of the claimant
  - Description of the essence of the complaint
  - Supporting documents and evidences (photos, maps, drawings/sketches, conclusion of experts or any other documents confirming the claim)
  - Brief description of the actions proposed for the grievance resolution at the first stage and the reasons why these actions were denied
  - Minutes of meetings conducted at the first stage
8. The GRC should make a decision within two weeks after the registration of the grievance. The GRC is staffed as follows: (i) Representative of self-government – the head of committee; (ii) 99. Director/ Manager of UWSCG service centre; (iii) Investments Project Management Division representative of the company; (iv) Representative of local authoritative NGO (according to the claim reference); (v) Stakeholders’ female representative;(vi) Stakeholders’ informal representative; and (vii) Heads of local municipalities.
9. The GRC will review the package of grievance documents, set a date for a meeting with the claimant, discuss the claim at the meeting, and set up a plan for further actions (actions, responsible persons, schedule etc.). Upon the resolution of the case, the GRC will prepare a brief resume and protocol and the protocol signed by complainant and all parties will be registered in a grievance log.
10. There is a third stage in case there is a failure to resolve the grievance. In this case, GRC will help the claimant to prepare the documents for submission to the Rayon (municipal) court. They can also apply to ADB at the address below:
- *Complaints Receiving Officer, Accountability Mechanism*
  - *Asian Development Bank Headquarters*
  - *6 ADB Avenue, Mandaluyong City 1550, Philippines*
  - *Email: amcro@adb.org, Fax +63-2-636-2086*

# ANNEX F: Weekly Environmental Monitoring Forms

Ure-01



ყოველკვირეული გარემოსდაცვითი მონიტორინგი

თარიღი/Date:

Weekly Environmental Monitoring

კონტრაქტის #/შპს ფერი Contract#:			ზედამხედველი: Eptisa Supervisor: Eptisa			
პროექტი/ობიექტი: URE-1 Project/Site:			კონტრაქტორი: შპს ფერი Contractor:			
N		კი/yes	არი/no	წილობრივ/Partially	არა/No	შენიშვნა/Comment
1	სამშენებლო ტერიტორიის სრულად შემოღობვა. Adequate fencing of construction area from all sides	✓				
2	საკეტოანი შესასვლელი კარიბმონაცვობა, სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნებით აღჭურვა Arrangement of lockable gate with standard warning and information signs	✓				
3	სამშენებლო ტერიტორიაზე და პერიმეტრზე სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნების განთავსება. Placement of standard warning and information signs at the perimeter and inside of construction area	✓				
4	ღიად დატოვებულ თხრილებზე და ქვებზე უსაფრთხოების ლენტების, ბარიერების და გამაფრთხილებელი ნიშნების განთავსება Installation of safety signs/tapes and trench side barriers around of open trenches				✓	
5	1,5 მეტრზე მეტი სიღრმის ტრანშეებში კედლების გამაგრება. Strengthening of walls of the deep trenches (>1.5m) by boards				✓	
6	დასახლებულ ადგილებში ღიად დატოვებულ თხრილებზე ედროებითი გადასასვლელების მოწყობა. Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas				✓	
7	სამშენებლო ტერიტორიაზე სამუშაოების ზონაში არსებული ხეების შემორაცვა (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage			✓		
8	ექსკავაციის დროს, წიაღისეულის ნაყოფიერი (დაახლოებით 20-30 სმ სისისი) ფენის მოხსნა და განცალკევებულად დაგროვება, შენახვა. Removal of top soil (about 30 cm depth) and separately storing in appropriate place				✓	
9	სამშენებლო ნარჩენების და ჭარბი ნარჩენი გრუნტის დროული გატანა/განთავსება. Timely removal/disposal of construction waste and surplus waste soil	✓				
10	სამშენებლო ტერიტორიის ღამის საათებში განათება. Provide adequate lighting of construction territory	✓				

11	სამშენებლო ტერიტორიის შესაბამისად მოწყობა, მასალების, მოწყობილობების და დანადგარების ორგანიზებული განთავსება. (საჭიროებიდან გამომდინარე) Proper arrangement of construction site and segregation/storing of construction materials/equipment (bring the material when required)	✓			
12	სამშენებლო ტერიტორიაზე საწვავის და საპოხი მასალების დაღვრის შედეგების სალიკვიდაციო ნაკრების (ქვიშა, ნახერხი, მცირე ზომის ავზი და სხვა) ხელმისაწვდომობა. Availability of proper fuel/oil spill response items (sand, sawdust, special containers) at the construction site		✓		
13	საწვავის და საპოხი მასალების კონტეინერების განთავსება მხოლოდ სპეციალურ გადხურულ ადგილებში. Allocation of fuel and lubricants containers at the special dedicated place (with roofing and concrete flooring)			✓	
14	სამშენებლო ტერიტორიაზე საყოფაცხოვრებო ნარჩენებისთვის თავსახურიანი კონტეინერის განთავსება და შესაბამისი წარწერებით აღჭურვა (მაგ. "HOUSEHOLD WASTE") Placement of proper Household Waste container at the special dedicated place with relevant indication signs (for example "Household Waste")	✓			
15	სამშენებლო ტერიტორიაზე სახიფათო ნარჩენებისთვის თავსახურიანი კონტეინერის განთავსება და შესაბამისი წარწერებით აღჭურვა. (მაგ. "HAZARDOUS WASTE") Placement of proper Hazardous Waste container at the special dedicated places with relevant indication signs (for example "Hazardous Waste")	✓			
16	სამშენებლო ტერიტორიაზე ან მის გარეთ ტრანსპორტისთვის პარკირების ადეკვატური მოწყობა და ნიშნით აღჭურვა (მაგ. P) Arrangement of proper Parking area at the adequate place inside/outside of construction territory with relevant sign (for example P)	✓			
17	სამშენებლო მასალების და ნარჩენების ტრანსპორტირების დროს ავტო ტრანსპორტის სპეციალური საფარით (შრეზენტით, ტენტითდასხვა) აღჭურვა Use tarpaulins cover during materials transportation			✓	
18	საჭიროებიდან გამომდინარე მტვრის წარმოქმნის პრევენცია. Dust generation prevention activities (when needed)	✓			
19	მუშების და ინჟინერ-ტექნიკური პერსონალის მიერ ინდივიდუალური დაცვის საშუალებების (ჩაფხუტი, ცილუტი, ხელთათმანი, ჩეკმები, დამცავისათვალვ. დასხვა) სრულად გამოყენება. Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks, safety belts	✓			
20	სიმაღლეზე მუშაობის დროს სპეციალური დამცავი აღჭურვილობის გამოყენება. Use of special safety equipment during working at heights	✓			
21	სამშენებლო ტერიტორიის მუდმივად დალაგება და დასუფთავება. Regularly cleaning of construction territory		✓		
ობიექტის გარემოსდაცვავზე პასუხისმგებელი პირი		სახელი: Name:		ხელმოწერა/ Signature:	

(კონტრაქტორი)/Staff responsible for environment/safety at the site (contractor)	კიკნაშვილი	
მშენებლობის ინსპექტორი (ზედამხედველი)/Construction site inspector (SC/Engineer)	სახელი: Name:	ხელმოწერა/Signature: 
გარემოსდაცვის სპეციალისტი (კონტრაქტორი)/Environmental Specialist (contractor)	სახელი: Name:	ხელმოწერა/Signature:

შენიშვნა/Comment:

შესაბამისი ფოტომასალა/Photo Materials:



## ANNEX G: Corrective Action Plan



### Corrective Action Plan

Minor						
No	Requirement reference	Details of non-conformity	Corrective Action Taken	Evidence provided	Date reviewed	Reviewed by
1.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	Safety rules during high-altitude works should be respected to avoid workers damage	Appropriate Scaffolds has been installed, with hardened platforms and mid rails. Working at Height is performed under permanent supervision of Site HSE Officer.	Please find photo below	07.08.2017	G. Tkemaladze
2.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	During high-altitude works special protection equipment should be used; Implementing works without special protection equipment is strictly prohibited	Harnesses will be used at the Heights. Site Management is requested not to allow person work at heights without harnesses.	---	07.08.2017	G. Tkemaladze
3.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	Workers always should use complete PPE	All site staff are equipped with appropriate PPE; Site HSE Officer to ensure works are performed with all required PPE	Please find photo below	07.08.2017	G. Tkemaladze

Evidence Photos



Scaffold are installed for working at heights;

Site staff are equipped with required PPE;