Environmental Monitoring Report

Semestral Report March 2017

GEO: Urban Services Improvement Investment Program – Project 2

Prepared by United Water Supply Company of Georgia, LLC, Government of Georgia for the Asian Development Bank.

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

Bi-annual Environmental Monitoring Report

Project Number: 43405-023 July-December 2016 Loan Number 2807-GEO (SF)

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

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December 2016

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ABBREVIATIONS

ADB	Asian Development Bank
DC	Design Consultant
DREP	Division of Resettlement and Environmental Protection
EA	Executing Agency
EARF	Environmental Assessment and Review Framework
EHS	Environmental Health & Safety
EIA	Environmental Impact Assessment
EIP	Environmental Impact Permit
EMP/ SSEMP	Environnemental Management Plan/ Site-Specific Environmental Management Plan
ES/ SES	Environmental Specialist/ Senior Environmental Specialist
GoG	Government of Georgia
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
USIIP	Urban Sector Improvement Investment Program
IA	Implementing Agency
IEE	Initial Environmental Examination
MFF	Multi-tranche Financing Facility
MoENRP	Ministry of Environment and Natural Resources Protection
MoRDI	Ministry of Regional Development & Infrastructure
NEA	National Environmental Agency
SC	Supervision Consultant
UWSCG	United Water Supply Company of Georgia
WSS	Water Supply & Sewerage
WTP	Water Treatment Plan
WWTP	Waste Water Treatment Plant

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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 2016 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 Investment Program will improve the health of residents in the urban centers of Mestia, Anaklia, Kutaisi, Poti, Ureki, Zugdidi and Marneuli. 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).

The following projects are financed under Tranche 2:

- MES-02, Rehabilitation of Water Supply and Sewerage System in Mestia (ongoing)
- ANA-01, Construction of Water Supply System and Sewerage Networks in Anaklia (completed)
- REG-02 Anaklia Lot, Construction of Wastewater Treatment Plant in Anaklia (ongoing)
- URE-01, Construction of Water Supply and Wastewater Network in Ureki / Phase 2 (ongoing)
- 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 are incomplete (i.e. missing installed manholes) and that the construction supervision (Eptisa) should have approved IPC-13. However, UWSCG informed ADB Mission that the construction supervision would carry out a post-facto inspection to re-evaluate the works and that dispute should be resolved by the end of the year. The dispute board will also be established to solve this issue.

B. Post Construction Audit

- 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.

Reg-02 and Ure-01 projects

- 11. 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. Completion data is scheduled on December 6, 2016.
- 12. However the Contractor is requesting an extension until May 2017 due additional soil improvement works. A Dispute Resolution Board has been set up to solve the issue. A decision is expected before the end of the February 2017.
- 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 2016).

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

14. Overall physical progress of the work under the ANA-01 and Mes-02 projects are 100%. No activities taken place during the reporting period of January-June 2016.

Construction Activities during previous 6 months under Reg-02 and Ure-01 projects (July-December 2016) are as follows:

Table 1: Project progress during the previous 6 months (July-December 2016).

Reg-02 Anaklia WWTP

REG-02	Anaklia WWTP
Works undertaken during July-December 2016	Effluent collector - 99%
	Construction of WWTP - 90%
	Mechanical installation - 50%

URE-01

Site URE-01	Water Mains Installation
Works undertaken during July – December 2016	13.775 km of PE 100 pipes OD 710, SDR 11 installed – 60.69%
Site	Water network
Works undertaken during July– December 2016	6.845 km of HDPE pipes DN 25-560 – 13.55%
Site	Sewerage network
Works undertaken during July – December 2016	5.296 km of PE 100 and corrugated pipes OD 110-500 mm, SDR 11 installed – 7.53%
Site	Construction of Reservoir #1
Works undertaken during July – December 2016	Excavation Works – 20%

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. An Investment Program Management Office (IPMO), which is under the Department for Strategic Planning and Donors Relation (the former name of the department of Donors Relations changed in July 2016) is established within the UWSCG for all Investment Program related functions. The IPMO coordinates construction of subprojects, and ensures consistency of approach and performance. Due to the reorganization of the Company a new Department of Environmental Protection, Resettlement and Permission is established under the UWSCG, which includes Unit of

Construction Permission. While the changes happen in 22 December 2016, the decision will be forced from January 2017.

- 17. UWSCG as responsible IA for the project recruited a Supervision Consultant (SC). 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 SEMPs 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 Waste Management Plan and agreed with 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 Resettlement and Environmental Protection Unit (UREP) 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 UREP 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. UREP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently UREP is staffed with a Head of Division, and one specialist who is responsible for both resettlement and environmental issues.
- **23.** ADB is the donor financing the Investment Program Environmental management organization is shown in Figure 1 and Figure 2.

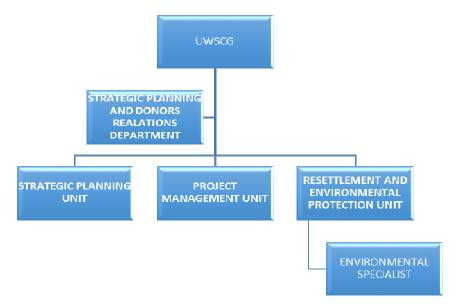
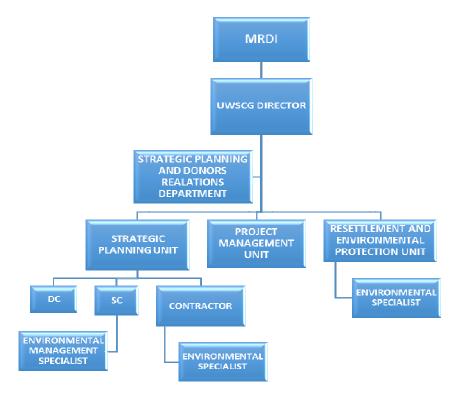


Figure 1: Structure Diagram of the Environmental Management Unit of UWSCG

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/UREP 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/UREP.
- **29.** SC is responsible for environmental capacity building, monitoring of implementation of SEMPs 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/UREP, Eptisa and Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.
- **32.** A Grievance Redress Committee has been established within Aan-01 Project for Anaklia, that will be functional for Reg-02 of Anaklia WWTP as well. A new GRC is established for Ure-01 project.
- **33.** Contractor of REG-02 project operated during the reporting period with the following subcontractor: Ltd "Prime Concrete".
- **34.** Below are the list of sub-contractors of "Ludwig Pfeiffer Hech und Tiefbau GmbH and Co"under the Reg-02 project
 - Zugdidi Municipality contract was signed for disposal of Municipal Waste from Anaklia WWTP site to the Zugdidi landfill
 - "Solid Waste Management Company of Georgia" contract was signed for disposal of Solid Waste from Anaklia WWTP site to the Zugdidi landfill
- **35.** 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".
- **36.** 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.

- **37.** Under the REG-02 and 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.
- **38.** Project organization for the awarded contracts listed above is given in the table 2 below.

Table 2: List of contracts under USIIP, T2

Contract #	Employer	Contractor
Contract No: (UWSC/ICB/CW/2012/ANA-01)	UWSCG	Joint Venture of Peri Ltd and Modern Business Group LLC
Contract No: (UWSCG/ICB/CW/2011/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	UWSCG	JV of Ludwig Pfeiffer Hoch-und Tiefbau GmbH & Co.KG (Germany) and ProtechnoSrl (Italy)
Contract No: P43405-ICB-URE-01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)

PART II - ENVIRONMENTAL MONITORING

- **39.** Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of UREP under USIIP on a regular basis, during the period January-June 2016. 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.
- **40.** The monitoring activities included monitoring of compliance of construction activities under Reg-02 project sites to the SSEMP requirements.
- **41.** Environmental Monitoring Specialist hired under the REG-02 subproject conducted the dayto-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Eptisa.
- **42.** Environmental Monitoring Specialist of SC developed quarterly monitoring reports for UWSCG/UREP based on the monthly reports submitted by Contractor, and based on environmental site inspection.
- **43.** ES of UREP 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.
- **44.** 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:

- Site Establishment
- Site Clearance and top soil Stripping
- Excavation Works
- **45.** 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 and REG-02 are reported in this EMR):

Parameters	Frequency & Location	Remarks					
Reg-02							
Air Quality	Every 3 months Reservoir #1, Pumping Station, Well Fields, Networks, Transmission Main	Watering site during excavation works to avoid dust spreading					
		Conduct measurements of Dusts Mg/m3; CO Mg/m3; NO2 Mg/m3; SO2 Mg/m3					
Noise	Every 3 months Reservoir #1, Pumping Station, Well Fields, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8					
Cultural heritage Disturbance to cultural resources	Every time along the alignment Archaeological & Cultural Properties	am – 6 pm 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.					
Cultural heritage Disturbance t							
Air Quality	Every 3 months Reservoir #1, Pumping Station, Well Fields, Networks, Transmission Main	Watering site during excavation works to avoid dust spreading					
		Conduct measurements of					

Table 3: Parametric Measurement Guidelines

Parameters	Frequency & Location	Remarks
		Dusts Mg/m3; CO Mg/m3; NO2 Mg/m3; SO2 Mg/m3
Noise	Every 3 months Reservoir #1, Pumping Station, Well Fields, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8
		am – 6 pm
Impact on Flora and Fauna	Monthly during the site monitoring.	Avoid tree cutting In unavoidable cases, plant four trees of same species for each tree that is cut for construction
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

46. 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 builtup areas. The geological structure of the area is stable and no potential land subsidence is foreseen.

D. Monitoring Measurement Data

Anaklia Waste Water Treatment Plant (Contract REG-02):

- 47. The Environmental Measurements were carried out by the contractors at various construction sites in Anaklia and Ureki. The National Environmental Standard (Maximum Permissible Level) for Dust is 0,5 Mg/m3, for CO is 5,0 Mg/m3, for S02 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).
- **48.** 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.

Table 4: Noise Level Guidelines

Noise	dB		
Receptor	Daytime 07:00 - 22:00	Nighttime 22:00 - 07:00	
Residential; institutional; educational	55	45	
Industrial; commercial	70	70	

- 49. The monitoring measurements were carried out in November 2016 (See Annex A) under the Reg-02 project. Location and data are included in the table below (Table 5). The next monitoring measurements will be conducted in February 2017. The frequency, time and place of the measurements will be agreed between the Contractor, SC and UWSCG and will be indicated in the next January-June EMR of 2017. According to data received in November 2016 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of Dust, CO, NO2, SO2 and Noise, therefore no additional mitigations are required. All measurements were carried out during the day time 14:00pm-16:00pm.
- 50. The monitoring measurements were carried out by contractor/Peri (Ure-01) in various construction sites in November 2016 (See 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 2017. According to data received in November 2016 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of Dust, CO, NO2, SO2 and Noise, therefore no additional mitigations are required. All measurements were carried out during the day time 13:00pm-15:00pm.

Table 5: Monitoring measurements under REG-02 and URE-01

Ν	Place of	Coordinates	Results				
	measurement		Dusts Mg/m3	CO Mg/m3	NO2 Mg/m3	SO2 Mg/m3	Noise Db - at work site (industrial zone)
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	70
1	Anaklia	X0713640 Y4697365	0.363	0.87	0,001	<0,1	53,7
2	Anaklia WWTP	X0714137 Y4697757	0.031	0.63	0.001	<0,1	45,2

Reg-02 Anaklia WWTP

URE-01

Samplin place		Noise	Concentration mg/m ³					
coordinates	Sample N	DB	Saturated hydrocarbons	Carbon oxide CO	Nitrogen dioxide NO ₂	Dust	Sulfur dioxide SO ₂	Hydrogen sulfide H ₂ S
Tsvermagala	1	40,6	0	024	<0,001	0,001	<0,1	<0,1
X 0731286	2	66.4	<0.1	1.07	<0,001	0,002	<0,1	<0,1
Y 4643708	3	68.2	<0.1	0.93	0,008	0,004	<0,1	<0,1
	4	60.0	1	0,87	0,003	0,011	<0,1	<0,1
Laituri	1	40.1	0	0,15	<0,001	0,002	<0,1	<0,1
X 0734834	2	60.0	<1	1,17	0,008	0,005	<0,1	<0,1
Y 4649812	3	59.2	<1	1.02	0.066	0.003	<0,1	<0,1
	4	64.4	<1	0.97	0.005	0.003	<0,1	<0,1
Shekvetili	1	69.7	<1	0,83	0,001	0,004	<0,1	<0,1
X0729536	2	73	1	1,21	0,007	0,005	<0,1	<0,1
4646583	3	71,2	1	1,30	0,007	0,005	<0,1	<0,1
	4	74,9	1	0,53	0,006	0,051	<0,1	<0,1
Kaprovani	1	54,3	<1	0,03	0,001	0,007	<0,1	<0,1
X 0729313	2	57,2	<1	0,13	0,001	0,06	<0,1	<0,1
Y 4650077	3	56,2	<1	0,12	0,001	0,03	<0,1	<0,1
	4	55,1	1	1,04	0,001	0,03	<0,1	<0,1

PART III - ENVIRONMENTAL MANAGEMENT

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

- 51. SSEMP for Anaklia WWTP was prepared by contractor under the REG-02 project in early June, 2015 before commencement of construction activities and approved by UWSCG. No SSEMPs have been prepared under the Reg-02 project (Anaklia sub-project) during the reporting period.
- **52.** SSEMP for Rez#1, under the Ure-01 project have been updated by contractor, endorsed by Supervision Company, approved by UWSCG and reviewed/commented by the RETA Regional Environmental Consultant of ADB under RETA 8663 Ms. Kate Dgebuadze. The previous location of the reservoir has been changed due to the expected tourism related development as well as the importance of the site in terms of biodiversity. Status of the SSEMPs are presented in table 6.

Table 6: Status of Site-Specific Environmental management plans

SSEMP	Status	Date of Submission
Site-Specific EMP (SSEMP) under Ure-01 project	Sent to ADB and approved	14 November 2016

3.2 Site Inspections and Audits

53. Regular site monitoring visits were carried out during the reporting period by the Supervision Consultant - Eptisa and PIU - UWSCG for REG-02 and Ure-01 projects. 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 REG-02 and URE-01 projects.

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 REG-02 and URE-01 projects.

54. Site inspection and audit during the reporting period have been carried out on: 12-13 July 2016, 15-16 September 2016, 28-30 September 2016, 9-10 November 2016 and 18-20 November 2016. The schedule of conducted monitoring and audit during the reporting period is presented in the Table 7 below.

#	Kut-01, Ure-01 and Ure- 02 Site visits	Organization	Date
1	Site audit	Environmental specialist of USIIP and Eptisa environmental specialists	12-13.07.2016
2	Site audit	Environmental specialist of USIIP and Eptisa environmental specialists	15-16.08. 2016
3	Site audit	Environmental specialist of USIIP and Eptisa environmental specialists	28-30.08. 2016
4	Site audit	Eptisa environmental specialists	9-10.11.2016
5	Site audit	Environmental specialist of USIIP and Eptisa environmental specialists	18-20.11. 2016

Table 7: The schedule of conducted audits and monitoring during the reporting period

55. 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

REG-02 and URE-01

- 56. All corrective actions requested after the Monitoring of sites were mostly improved by contractor; however, there were some environmental issues that were not addressed adequately. During the supervision of construction, in the previous six months of work, three "non-compliance notices" were issued by environmental monitoring specialists of Eptisa and UWSCG to contractor, under Ure-01 project. None of the non-compliance notice was issued to the contractor/Pfaifer (Reg-02 project) during the reporting period. Almost all the discrepancies were discussed verbally during the visits. Main Findings revealed during the monitoring of the sites are described in Table 5 below.
- **57.** It should be mentioned that all permits, licenses and agreements under the Reg-01 and Ure-01 projects are on place and available at camp site.

3.4 Corrective Action Plans

58. For the purpose of resolving the observed issues instructions were given to contractor and regular environmental meetings were carried out with the participation of UWSCG/IPMO/UREP, Eptisa, contractors. During the meetings environmental issues and implementation of the mitigation measures were discussed.

Table 8: Actions taken for implementation of mitigation measures under REG-02 by the end of December 2016.

REG-02

Construction Site	Environmental Issues	Action taken
Anaklia WWTP	Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored.	Partially Completed
	Household and Hazardous Waste containers should be installed in proper place with relevant signs, with concrete basement and roofing	Completed

URE-01

Construction Site	Environmental Issues	Action taken
Ureki/Well	Fuel/oil spill response items (sand, sawdust,	Completed
Fields	special containers) should available Fencing of the site is to be established	Completed
	Topsoil should be managed according to the SSEMP	Partially Completed
	Machinery and equipment should be in standard technical condition (no leakage of fuel and lubricants)	Partially Completed
	All containers of fuel and lubricants should be placed in a special place with roofing	Partially Completed
	Bentonite waste should be managed according to SSEMP	Partially Completed
		1
Ureki/Pumping Station	Proper place for Parking with relevant sign should be arranged	Completed
	All construction materials should be properly segregated and stored adequately	Completed
	Fuel/oil spill response items (sand, sawdust, special containers) should be equipped with relevant signs	Completed
	Machinery and equipment should be in standard technical condition (no leakage of fuel and lubricants)	Completed
	All workers (even personnel of subcontractor) should be equipped with complete PPE	Completed
	Site internally should be arranged properly and cleaned regularly	Completed
Ureki/Network	Enough and high visible safety signs/tapes and trench side barriers around of deep open trenches should be installed to avoid accident of population	Completed

Construction Site	Environmental Issues	Action taken					
	Use tarpaulins to cover during materials transportation	Not Completed					
	Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents Accumulated waste soil should be removed from construction area and disposed in a proper place						

- 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 by ADB on 29-30 September 2016 to review environmental safeguards compliance of USIIP projects.

3.5 Actions taken to reflect the findings of ADB mission carried out on 29-30 September 2016:

Table 9: Status of findings of ADB mission carried out on 29-30 September 2016

Project	Specific Issues	Deadline for submission/Implementa tion	Implementation Status				
Constructio	n of the Waste Water Treatment Plant ir	n Anaklia – T 2					
Reg-02 Anaklia WWTP	Anaklia WWTP: Company Waste Management Plan has to be submitted to MoENRP for approval according to new Waste Management Code of Georgia.	December, 2016	Not Submitted yet. Will be submitted by the end of December 2016.				
	Temporary fencing is installed around the site. Permanent fencing (2 m walls) will be constructed in September 2016 by the CC.	September 2016	Completed				
Rehabilitatio	on of the Water Supply System in Ureki						
Ure-01	SSEMP for reservoir 1 will be updated due to the fact that location and design for Res#1 is changed.	May 2016	The updated SSEMP for Res-#1 is prepared by consultant, endorsed by Eptisa and approved by UWSCG in November 2016				
	SSEMP for reservoir 3 will be prepared after selection of final territory.		SSEMP for Reservoir #3 will be developed after the final location is agreed and approved.				

All documents are available at camp site except agreement with Municipal Waste Disposal Agency and filled checklists of CC environmental specialist.		Contractor has provided agreement with the Municipal Waste Disposal Agency which is currently available at contractor's camp site.
		The contractor conducted a visual inspection for daily monitoring of sites.
		During the reporting period, the weekly monitoring form has been developed by SC/Eptisa, which has to be filled by the environmental specialist of contractor on the weekly basis (See. Annex F).
Company Waste Management Plan (CWMP) is under preparation and will be submitted to the MoENRP for approval till December 2016 according to the new Waste Management Code of Georgia (accepted in January 2015).	End of December	Not Submitted yet. Will be submitted by the end of December 2016.

Table 10: Status of implementation of action plan of January-June 2016

Specific issues: Recommendations REG-02 Anaklia WWTP	Implementation Status
Conduct monitoring of environmental quality under REG-02 in Anaklia WWTP site (September 2016) Parameters to be measured: Dust, Carbon monoxide, Nitrogen	Completed in November 2016 Measurement data are reflected in proposed EMR
dioxide, Sulfur dioxide, Noise	
Conduct monitoring of environmental quality under Ure-01 project sites (September 2016)	Completed in November 2016 Measurement data are reflected
Parameters to be measured: Dust, Carbon monoxide, Nitrogen dioxide, Sulfur dioxide, Noise	in proposed EMR 2016

3.6 Consultations and Complaints

Public Awareness Activities

- **61.** In July-December 2016 regular meetings were held for the households living in Anaklia, with participation of public awareness specialists of UWSCG, contractor and Eptisa.
- **62.** Local population was provided with the brochures and information about the project and planned activities. These brochures include information about the GRM System and GRC.
- **63.** EPTISA assisted in public awareness strategy development in Ureki and continue monitoring of awareness activities in both Ure-01 and Ure-02 projects.

Trainings carried out by Supervision Company/Eptisa

- 64. Environmental safety training was held by Eptisa on September 1, 2016. Venue was the head office of Eptisa, conference hall. The following topics were discussed during the training course: Environmental Management Plan (EMP); Site-Specific Environmental Management Plan (SSEMP); Environmental Impact and Mitigation Measures during Construction phase; Case studies of Environmental Impact by Contractor and proposed Mitigation Measures. Training was attended by representatives of the environmental team of contractors under the Ure-01, Ure-02 and Reg-02 projects and UWSCG / UREP. It was suggested during the preparation to conduct such training on a regular basis.
- **65.** In addition to this 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 were introduced with safeguard requirements of ADB/SPS 2009. The main issues of discussion were the site problems related to the site management and implementation of mitigation measures in accordance with the EMP/SSEMPs.

Grievance redresses mechanism (GRM)

- 66. 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.
- **67.** During the reporting period up to 10 complaints have been received under Reg-02 and 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

- **68.** 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;
- **69.** Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMPs and SSEMPs requirements under REG-02 and Ure-01 projects;
- **70.** More detailed recommendations are provided in the table below.

Table 11: Recommendations to address Environmental Issues

Recommendations REG-02	Responsible Party								
Anaklia WWTP									
Prepare Waste Management Plan and submit to the MoENRP by the end of December 2016	Contractor, with support of Supervision Company and UWSCG								
Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored	Contractor								
Recommendations URE-01	Responsible Party								
Ureki Network									
Prepare Waste Management Plan and submit to the MoENRP by the end of December 2016	Contractor, with support of Supervision Company and UWSCG								
Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents	Contractor with the supervision of Eptisa								
Accumulated waste soil should be removed from construction area and disposed in a proper place	Contractor with the supervision of Eptisa								
Recommendations URE-01	Responsible Party								
Ureki Well Fields									
Topsoil should be managed according to the SSEMP	Contractor								
Machinery and equipment should be in standard technical condition (no leakage of fuel and lubricants)	Contractor								
All containers of fuel and lubricants should be placed in a special place with roofing	Contractor								
Bentonite waste should be managed according to SSEMP	Contractor								

4.2 Action Plan for the next period

- **71.** Conduct regular monitoring of sites in accordance with the EMP/SSEMP requirements.
- 72. SSEMP for Reservoir #3 will be developed after the final location is agreed and approved.
- **73.** Conduct monitoring of environmental quality under REG-02 project at Anaklia WWTP site, by the end of February 2017.

Table 12: The specific plan for environmental measurement (Reg-02) is as follows:

Parameters	Quarterly measurement
Dust	February 2017
Vibration	February 2017
carbon monoxide	February 2017
nitrogen dioxide	February 2017
sulfur dioxide	February 2017
Noise	February 2017

74. Conduct monitoring of environmental quality under URE-01 project at Rez-01 and network sites, by the end of February 2017.

Table 13: The specific plan for environmental measurement (Ure-01) is as follows:

Parameters	Quarterly measurement
Dust	February 2017
Vibration	February 2017
carbon monoxide	February 2017
nitrogen dioxide	February 2017
sulfur dioxide	February 2017
Noise	February 2017

ANNEXES

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

REG-02 Project - Anaklia WWTP

				15.11.201	0	
Samplin place coordinates	Noise DB	Dust mg/m ³	Sulfur dioxide SO ₂ mg/m ³	Nitrogen dioxide NO ₂ mg/m ³	Carbon oxide CO mg/m ³	
Anaklia	53.7	0.363	<0.1	0.001	0.87	
X 0713640 Y 4697365		1				
Enterprise area X 0714137 Y 4697757	45.2	0.031	<0.1	<0.001	0.63	
Ureki X 0730237 Y 4650518	62.2	0.015	<0.1	0.001	0.24	
Executors: Main specialist Main specialist Specialist	1				Keni Jenj	 O. Kenia S.Khatsava G. Morgoshia

25

Ure-01 Project

Agreed: Head Environmental Pollution Monitoring Department	Executors: Main specialist Main specialist Specialist		Y 4650077	X 0729313	Kaprovani		4646583	X0729536	Shekvetili		Y 4649812	X 0734834	Laituri		Y 4643708	X 0731286	Tsvermagala	coordinates	Samplin place
ollution nt		4	з	2	1	4	з	2	1	4	3	2	1	4	3	2	1	Sample N	e
		55,1	56,2	57,2	54,3	74,9	71,2	73	69.7	64.4	59.2	60.0	40.1	60.0	68.2	66.4	40,6	DB	Noise
		1	<1	<1	<1	1	1	1	<1	<1	<1	<1	0	1	<0.1	<0.1	0	Saturated hydrocarbons	
HE NUTRONA	A COMPACT	1,04	0,12	0,13	0,03	0,53	1,30	1,21	0,83	0.97	1.02	1,17	0,15	0,87	0.93	1.07	024	Carbon oxide CO	
Here I	Renje	0,001	0,001	0,001	0,001	0,006	0,007	0,007	0,001	0.005	0.066	0,008	<0,001	0,003	0,008	<0,001	<0,001	Nitrogen dioxide NO ₂	Concentration mg/m ³
M. Arabidze	O. Kenia S.Khatsava G. Morgoshia	0,03	0,03	0,06	0,007	0,051	0,005	0,005	0,004	0.003	0.003	0,005	0,002	0,011	0,004	0,002	0,001	Dust	n mg/m ³
ldze	a ava oshia	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	Sulfur dioxide SO ₂	
		<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	Hydrogen sulfide H ₂ S	

ANNEX B: PHOTOS OF SITES

Reg-02: Anaklia WWTP Site







Ure-01 project sites:



Ureki Well fields



Ureki Pumping Station

ANNEX C: Non-Compliance Notice

Non-Compliance Notice: Ure-01

Non-Compliance Notice

Project: USIIP	
Contract No: URE-01	Non-compliance Notice
Contractor: PERI	UREKI
Reference:	
UREKI - UREKI PAMPING STATION	
This notice is to advice you, the prime Contractor, on the referenced Contractor is to be implemented urgently .	ontract, of the following notice on
NON-COMPLIANCE IN UREKI	
PAMPING STATION	
- Proper place for Parking with relevant sign should be arranged	
- All construction materials should be properly segregated and store	
 Fuel/oil spill response items (sand, sawdust, special containers) sl relevant signs 	nould be equipped with
 Machinery and equipment should be in standard technical condition lubricants) 	on (no leakage of fuel and
- Use tarpaulins to cover during materials transportation	
 All workers (even personnel of subcontractor) should be equipped 	with complete PPE
- Site internally should be arranged properly and cleaned regularly	



All these conditions have to be remedied within five days (by the 25 September 2016) by the prime Contractor (Peri).

Date of site visits: 15 - 16.09.16	
Irakli Legashvili	
EPTISA - Environment	

Non-Compliance Notice

Project: USIIP	
Contract No: URE-01	Non-compliance Notice
Contractor: PERI	UREKI
Reference:	
UREKI - WELLFIELD	
This notice is to advice you, the prime Contractor, on the referenced C environmental measures to be implemented urgently.	ontract, of the following notice on

NON-COMPLIANCE IN UREKI

WELLFIELD

- Fuel/oil spill response items (sand, sawdust, special containers) should available
- Fencing of the site is to be established
- Topsoil should be managed according to the SSEMP
- Machinery and equipment should be in standard technical condition (no leakage of fuel and lubricants)
- All containers of fuel and lubricants should be placed in a special place with roofing
- Bentonite waste should be managed according to SSEMP



All these conditions have to be remedied within five days (by the 25 September 2016) by the prime Contractor (Peri).

Date of site visits: 15 - 16.09.16	
Irakli Legashvili	
EPTISA - Environment	

Non-Compliance Notice

Project: USIIP	
Contract No: URE-01	Non-compliance Notice
Contractor: PERI	UREKI
Reference:	
UREKI – NETWORK, RESERVOIR	

This notice is to advice you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented **urgently**.

NON-COMPLIANCE IN UREKI

NETWORK

- Protect trees to avoid its damage during transmission line construction
- Enough and high visible safety signs/tapes and trench side barriers around of deep open trenches should be installed to avoid accident of population
- Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents
- Accumulated waste soil should be removed from construction area and disposed in a proper place
- Use tarpaulins to cover during materials transportation
- Workers always should use complete PPE





RESERVOIR

- Trees at the construction site should be protect to avoid its damage
- Site should be fenced from all sides and equipped with lockable gate with proper warning and information signs
- Proper warning and information signs should be arranged at the entrance, perimeter and inside of construction site
- Safety signs/tapes and trench side barriers should be installed around of excavation of reservoir
- Household Waste containers with relevant sign should be installed in proper place
- Hazardous Waste containers with relevant sign should be installed in proper place
- Workers always should use complete PPE
- Site internally should be arranged properly and cleaned regularly



All these conditions have to be remedied within five days (by the 20 November 2016) by the prime Contractor (Peri).

Date of site visits: 09.11-10.11.16

Irakli Legashvili	
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		
Reg-02	02				
Anaklia WWTP					
	Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored	Partially completed	Instruction is given to contractor to improve the situation		
	Household and Hazardous Waste containers should be properly installed	Completed	Contractor improved the situation after the instructions given by the ES of UWSCG/USIIP		
Ure-01					
Well Fields					
	Bentonite waste should be managed according to SSEMP	Partially completed	Instruction is given to contractor to improve the situation		
	Topsoil should be managed according to the SSEMP	Partially completed	Instruction is given to contractor to improve the situation		
	Machinery and equipment should be in standard technical condition (no leakage of fuel and lubricants)	Partially completed	Instruction is given to contractor to improve the situation		
	All containers of fuel and lubricants should be placed in a special place with roofing	Partially completed	Instruction is given to contractor to improve the situation		
Ure-01					
Pumping Station					
	Proper place for Parking with relevant sign should be arranged	Completed	No additional actions are required		
All construction materials should be properly segregated and stored adequately		Completed	No additional actions are required		
	Fuel/oil spill response items (sand, sawdust, special containers) should be equipped with relevant signs	Completed	No additional actions are required		
	Machinery and equipment should be in standard technical condition (no	Completed	No additional actions are required		

	leakage of fuel and lubricants)		
	Use tarpaulins to cover during materials transportation	Partially Completed	Contractor to ensure construction materials to be covered by tarpaulins
	All workers (even personnel of subcontractor) should be equipped with complete PPE	Completed	No additional actions are required
	Site internally should be arranged properly and cleaned regularly	Completed	No additional actions are required
Ure-01			
Networks			
	Accumulated waste soil should be removed from construction area and disposed in a proper place	Completed	Contractor is given instruction to keep the standard
	Enough and high visible safety signs/tapes and trench side barriers around of deep open trenches should be installed to avoid accident of population	Completed	Contractor is given instruction to keep the standard
	Walls of the deep trenches (>1.5m) should be strengthened by boards to avoid landfall of the soil and accidents	Not Completed	The contractor was instructed several times to improve the situation
	Use tarpaulins to cover during materials transportation	Not Completed	The contractor was instructed several times to improve the situation

ANNEX E: GRIEVANCE REDRESS MECHANIZM

GRM System

- **75.** 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.
- **76.** After issuance of the special order, a GRM was first set up by UWSCG under the REG-01 project of USIIP (operational since April, 2014) that includes rehabilitation of water supply system in Kutaisi. The GRM allows affected people to appeal any disagreeable decision, practice or activity arising from project implementation.
- **77.** 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.
- **78.** 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.
- **79.** The service centre operators, who are trained1 in USIIP/Reg-01project, 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 system2 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 of the Environmental and Resettlement Division, Maka Goderdzishvili.
- **80.** 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.
- **81.** 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:
 - Name, ID, address and contact details of the claimant
 - Description of the essence of the complaint

¹ 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.

²The **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 e-Documentservice offers an opportunity to manage, find, and track documents for information-intensive organizations.

- 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
- 82. 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.
- **83.** 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.
- **84.** 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

თარიღი/DATA

ყოველკვირეული გარემოსდაცვითი მოიტორინგი Weekly Environmental Monitoring

კონტრაქტის #:		ზედამხედველი: Eptisa				
Contract#:				Supervisor: Eptisa		
პრო	პროექტი/ობიექტი:			კონტრაქტორი:		
Proje	ect/Site:			Contractor	ontractor:	
N		კი/ yes	არა/ no	ნაწილო ბრივ/ Partially	არ ეხება/ N.A	შენიშვნა/Comment
1	სამშენებლო ტერიტორიის სრულად შემოღობვა					
	Adequate fencing of construction area from all sides					
2	საკეტიანი შესასვლელი კარის მოწყობა, სტანდარტული გამაფრთხილებებლი 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 ჭებზე 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 დროებითი გადასასვლელების მოწყობა Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas						
7	სამშენებლო ტერიტორიაზე, სამუშაოების ზონაში არსებული ხეების შემორაგვა (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage					
8	ექსკავაციის დროს, წიადაგის წაყოფიერი (დაახლოებით 20-30 სმ სისქის) ფენის მოხსწა და განცალკევებულად გროვებად 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 და მოწყობილობების და დანადგარების ორგანიზებულად 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) ხელმისაწვდომლობა		
	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 გადახურულ 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 ადგილის 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 ავტოტრანსპორტის სპეციალური საფარით (ბრეზენტით, ტენტითდასხვა) აღჭურვა		
	Use tarpaulins cover during materials transportation		
18	საჭიროებიდან გამომდინარე მტვრის წარმოქნის პრევენცია		
	Dust generation prevention activities (when needed)		
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19	მუშების და ინჟინერ-ტექნიკური პერსონალი დაცვის საშუალებების (ჩაფხუტი, ჟილეტ						
	დამცავი სათვალე, და სხვა) სრულად გამოყენე	ება					
	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 გამოყენება	დამცავი აღჭურვილობის					
	Use of special safety equipment during working at l	neights					
21	სამშენებლო ტერიტორიის მუდმივად დალაგე	ება და დასუფთავება					
	Regularly cleaning of construction territory						
ობი	ექტის გარემოს დაცვაზე პასუხისმგებელი	სახელი:		ხელმოწე	რა/		
	ი (კონტრაქტორი)/Staff responsible for						
envi	ronment/safety at the site (contractor)	Name:		Signature:	Signature:		
-	ებლობის ინსპექტორი	სახელი:		ხელმოწე	ხელმოწერა/		
(ზედამხედველი)/Construction site inspector (supervisor)		Name:		Signature	Signature:		
გარე	ემოს დაცვის სპეციალისტი	სახელი:					
(კონტრაქტორი)/Environmental Specialist		Name:		bomdoneo	ხელმოწერა/		
(contractor)				0.90000099			
				Signature:			

შენიშვნა/Comment:

შესაბამისი ფოტომასალა/Photo Materials: