

Semi-Annual Environmental Monitoring Report

15th № Semestral Report

Reporting Period: July-December 2024

January 2025

Georgia: Batumi Bypass Road Project

Financed by the Asian Development Bank (ADB) and the Asian Infrastructure Investment Bank (AIIB)

Loan Number: 3520-GEO Project Number: 50064-001

Prepared by Roads Department (RD) for the Ministry of Regional Development and Infrastructure of Georgia (MRDI) for the Asian Development Bank (ADB).

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CURRENCY EQUIVALENTS

(As of December 2024)

Currency unit – United State Dollars (USD)

{GEL}1.00 = \$ 0.358 USD

\$1.00 = 2.79 GEL

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Abbreviations

ADB	Asian Development Bank
AIIB	Asian Infrastructure Investment Bank
BOT	Batumi Oil Terminal
BoQ	Bill of Quantities
BR	Bridges
CSCS	Consultancy Services for the Construction Supervision
dB	Decibel
CPT-SPT	Cone Penetration Test - Standard Penetration Test
CC	Construction Contractor
CH	Cultural Heritage
CSEMP	Contractor's Contract Specific Environmental Management Plan
DNP	Defects Notification Period
EIA	Environmental Impact Assessment
EDDR	Environment Due Diligence Report
EMP	Environmental Management Plan
EMR	Environmental Monitoring Report
ESP	Environmental and Social Policy
ESR	Environmental Sensitive Receiver
GRM	Grievance Redress Mechanism
GRCE	Grievance Redress Committee
HS	Health & Safety
H&S	Health & Safety
HSE	Health, Safety and Environment
HSMP	Health and Safety Management Plan
IFC	International Finance Corporation
MAC	Maximum Allowable Concentration
MoEPA	Ministry of Environmental Protection and Agriculture
MoRDI	Ministry of Regional Development and Infrastructure
MSs	Method Statements
m S/cm	Milli Siemens/ centimetre
NCN	Non-Conformance Notice
NCR	Non-Conformance Report
NOC	No Objection Certificate
PMCSC	"Project Management and Construction Supervision Contract
PPE	Personnel Protective Equipment'
PPT	Personnel Protective Technologies
PIU	Project Implementation Unit
QC	Quality Control
RD	Road Department
Row	Right of Way
SAEMR	Semi Annual Environmental Monitoring Report
SDA	Spoil Disposal Area
SDS	Spoil Disposal Site
SSEMP	Site Specific Environmental Management Plan
SPS	Safeguard Policy Statement

1 INTRODUCTION

1.1 Preamble

1. Batumi Bypass Road Project: Major Change in Project (Change in Scope, Amount, and Implementation Arrangements) was conducted in September 2019. The major change is an increase in project scope through the addition of a fourth output under the project comprising two additional construction subprojects: a new bridge and approach roads over the Rioni River in Poti and a new bypass road from Bakurtsikhe to Tsnori. Reallocation of existing savings can be utilized to fund the new output, which will reinforce the project's impact of improving regional connectivity in Georgia. The change is considered major because it fundamentally affects the approved project scope and outcome by more than doubling the length of roads and/or bridges to be built. The approved revised Project completion date is 30 September 2024. Currently the project is in the Defects Notification Period (DNP), which extends from October 2024 to October 2027.
2. This report delineates the Semi-Annual Environmental Monitoring Review conducted for the Batumi Bypass Road during the period of July to December 2024. This report is the 15th Semi-Annual EMR for the Batumi Bypass Road Project and 7th Semi-Annual EMR for the construction of Poti Bridge (please see attachment 1) and Access Roads and Construction of Bakurtsikhe-Tsnori Road Projects (see attachment 2). Supplementary Agreement No. 4 (SA No. 4) provided an extension to the works contract, extending the completion date to 30 September 2024. However, the Contractor has not met this completion date and construction activities are expected to continue to end of April 2025.
3. The BBRP was opened to Traffic on 11 October 2024 although construction activities are ongoing. It is important to note that the ongoing construction activities after the road opening are minor and localized (e.g., landscaping, drainage finishing works, minor slope stabilization), which are not expected to cause significant environmental impacts. Consequently, no additional analysis of natural environmental parameters has been deemed necessary at this stage. A noise impact study will be conducted in the summer of 2025 by a specialized company contracted by the RD. This timing has been specifically chosen to coincide with the peak of the tourist season, when traffic intensity is at its highest, ensuring that the assessment reflects the worst-case scenario for noise levels.

1.2 Project Overview

4. Batumi bypass road covers the section from Makhinjauri to Chorokhi River. Total length of the road is 14.325km while the width is 14.0 m. The mentioned section flows through mountainous terrain and includes construction of 5 tunnels, 3 bridges, 10 viaducts, 8 overpasses, 1 underpass, 52 culverts and 4 interchanges.
5. The start section is separated from an existing road to detour villages near the Black Sea and then bypasses villages in the mountainous area through tunnels. There are tunnels and bridges to cross a dismantled military base and mountainous area in the middle section. The end section traverses flat terrain and joins an existing road while bypassing several obstacles.

Table 1 Project outline (km.-1+000 - km.13+325):

Classification of road	International highway
Design speed	$V = 100 \text{ km/hr}$
Road length	$L = 14.325 \text{ km}$
Road width	$B = 14 \text{ m}$
Lane numbers	2 lanes

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

6. The 81-km Poti–Batumi–Sarpi Road (“S2” under Georgian Highway Designation) along the western coast of Georgia, located in the Adjara Autonomous Republic, is a key international highway and international transit route in Georgia. It is connected to the important towns of Batumi, Poti and Kobuleti. Batumi is a major Black Sea port and a holiday resort. Poti is the largest port of Georgia and Kobuleti is a holiday resort. Due to heavy traffic on S2, there has been a significant increase in congestion and accidents particularly during the tourist season in Batumi and Kobuleti. The Government of Georgia is constructing two bypass roads around Batumi and Kobuleti to improve traffic flow from these towns.
7. The Project Road, bypassing the city of Batumi to the east, is entirely located in Khelvachauri District. The design alignment goes through the villages of Makhinjauri, Gantiadi, Kapreshumi, Salibauri, Peria, and Makhvilauri. Passing through these villages, the design alignment crosses a diverse landscape of multiple ravines, streams, rivers, hills, and hillsides. Thirteen kilometers of road, five tunnels, nineteen bridges and four interchanges are planned along the Project alignment.
8. Batumi Bypass Road Project is co-financed by the Asian Development Bank (ADB) and the Asian Infrastructure Investment Bank (AIIB) and the Government of Georgia. The Project is classified as category A for the environment under ADB’s Safeguard Policy Statement (2009) so that a full Environmental Impact Assessment Report and a Resettlement Action Plan were prepared for the Project and disclosed on ADB website on 27 March 2017. The Road Department of the Ministry of Regional Development and Infrastructure of Georgia submitted an EIA to the Ministry of Environment and Natural Resources Protection on 18 August 2017. The EIA was approved by MoEPA on 30 August 2017.
9. Based on the Safeguard Policy requirements of ADB and Government of Georgia, to conduct an external independent monitoring and assessment of the Projects’ environmental compliance and reporting, a qualified External Environmental Monitoring Firm was engaged for all Environment Category A Road projects in Georgia. The objectives of external environmental monitoring are to provide an independent review and assessment of (i) the achievements of Georgian Transport Sector projects in environmental safeguards objectives and principles, (ii) the effectiveness, impact and sustainability of taken measures to minimize, mitigate and/or compensate environmental impacts, (iii) the necessity of further mitigation measures if any, (iv) to identify strategic lessons for future policy formulation and planning, and (v) capacity building in environmental safeguards.

Figure 1 Project Location Map**Table 2 Project Information**

PROJECT ITEM	DETAILS
Employer	Road Department (RD) of the Ministry of Regional Development and infrastructure of Georgia
Funding Source	Asian Development Bank and Asian Infrastructure Investment Bank
The Engineer	SMEC International Pty Ltd with Sub-consultants: Uniprof Group Ltd and Lider + Ltd
Contractor	JV Polatyol & Mapa
Letter of Acceptance	06.07.2018
Signing date of Contract	29.08.2017
Commencement Date of Works	14 March 2018: section km6+700 – km12+830 24 May 2018: section km1+750 – km2+250 15 Oct 2018: sections km0+00 – km0+650 and km2+250 – km6+700 30 April 2019: section km 0+850 - km 1+750 21 October 2019: section km12+830 - km13+325 (excluding land plot with cadastral code: 05.35.22.723) 12 March 2021: section km0+650 – km0+850 30 July 2021: section Km 12+870 – Km 12+980
Contract Period	2392 days
Original Completion date	30.08.2020
Time Extension (EOT No. 1)	31.12.2021

Time Extension (EOT No. 2)	31.12.2022
Time Extension (EOT No. 3)	31.05.2024
Time Extension (EOT No. 4)	30.09.2024
Expired time	2484 days
Remaining time	-92 days
Certified Advance Payment	GEL 49,444,610.22
Advance repayment	GEL 49,444,610.22
Retention money (10 %)	GEL 34,119,705.40
Amount certified as per works done	GEL 341,197,054.02
Percentage of achieved Physical Progress	95.01%
Defects Notification Period	3 years

2.2 Project Contracts and Management

10. The Contract for CSCS was awarded to SMEC International Pty Ltd in September 2017 for three phases of the project:

Phase 1 – Design review, to be completed in a period of three months. The Design Review Report was completed and submitted to RD on 26 December 2017.

Phase 2 – Construction supervision and contract administration. The construction period is for 2484 days.

Phase 3 – Defects Notification Period, three years.

11. The TOR for the CSCS Contract contains the following tasks for the Environmental Specialists:

- a. Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor's Site-Specific Environmental Management Plan (SSEMP) prior to its acceptance by the Engineer and the Employer, and thereafter ensure that the Contractor complies in every respect with the provisions of the SSEMP.
- b. Make sure that approved SSEMP is reflected in the Supervision Consultant's monthly and quarterly report for further compliance of the Contractor.
- c. Develop an environmental auditing protocol for the construction period, regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. These reports will be included as an annex to the Supervision Consultant's Monthly Report.
- d. Develop a program for hands-on training of Contractor's staff in implementing the SSEMP.

12. Details of the main organisations and staffing involved in the Project relating to Environmental Safeguards, including lender, borrower, Main Contractor/s and significant sub-contractors are given in **Table 3**. Individual contact details can be provided on request.

Table 3 Staff Involved in Environmental Safeguards

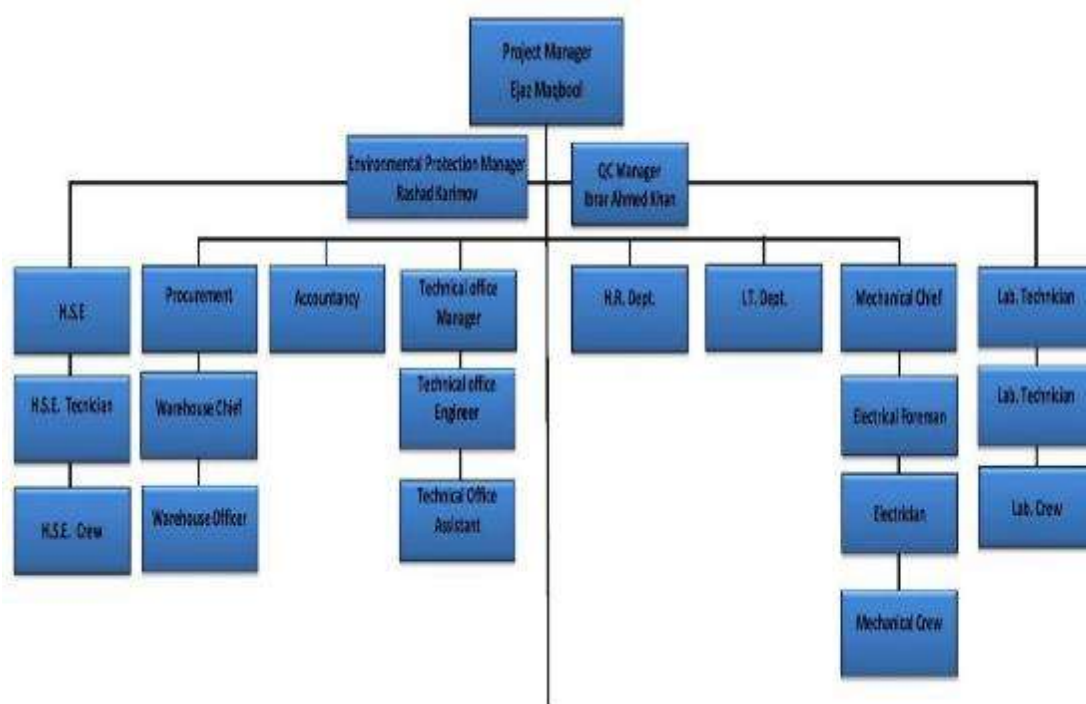
Asian Development Bank	Ninette R. Pajarillaga Georgia Country Focal/ Principal Environmental Specialist/ ADB Head Office Nino Nadashvili Safeguards Officer /ADB Georgia Resident Mission Giorgi Kobaladze RETA/ADB National Environmental Consultant
Road Department	Luiza Bubashvili Environmental Safeguard Consultant under ADB Financed Projects
PolatYol & Mapa Joint Venture	Ejaz Maqbool Project Manager Rashad Kerimov International Environmental Specialist Ayaz Abdurahmanov Health, Safety & Traffic Manager Jaba Mzhavanadze Local Environmental Specialist
SMEC International PTY Limited	Michael Holics International Environmental Specialist
Sub-consultant	Tengiz Lagidze Local Environmental Specialist
	Davit Tevzadze Local Environmental Specialist

13. The Contractor shall comply with all applicable national, provincial, and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall:

- (a) Establish an operational system for managing environmental impacts,
- (b) Develop the Environmental Management Plan (EMP) by identifying environmental risks arising from the Works, the mitigation measures to be applied, and monitoring to be carried out,

- (c) Implement the required mitigation measures and monitoring,
 - (d) Take any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the EMP, and
 - (e) Submit quarterly reports on the carrying out of such measures to the Engineer.
14. Polatyol & Mapa Joint Venture Project Manager, Mr. Ejaz Maqbool has responsibility for all environmental aspects of construction work undertaken. He will be responsible for strictly monitoring that Polatyol & Mapa Joint Venture services site management team conforms to all environmental aspects in accordance with Polatyol & Mapa Joint Venture environmental access policy and safety plan.
15. Responsibility for daily management for environmental monitoring and implementation of the SSEMP is given to the Environmental Protection Manager, Mr. Rashad Karimov. He has direct authority from the Project Manager to give instruction to all site staff regarding environmental issues. The project organization chart for key Contractor management staff is provided in **Figure 2**.

Figure 2 Contractor's Project Management Staff



2.3 Project Activities during Current Reporting Period

16. The financial progress of the works at the end of december 2024 is 95.22% in accordance to the original contract price (329,630,734.78).
17. The physical progress of the works is 95.01% based on the implemented works. The remaining 5% of the works include Environmental activities, which also involve the removal of waste stored under the bridges.
18. **Tunnels:** The main outstanding works include the completion of the Emergency Exits, associated Tunnel Service Buildings, and the Tunnel Operation and Control Building, all of which are at various stages of completion.
19. **Bridges and Roadworks:** The BBRP was opened to traffic on the 11 October 2024.

Table 4 Construction Progress

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
I. Setting Out and Site Clearance						
Basic topography and detailed setting out						
1	For main road	km	14.325	13.125	91.62	
	for ramps and secondary roads	km	10.858	8.287	76.32	
	Site cleaning	ha	76.80	36.37	47.35	
	Cutting trees of more than 0.1 m diameter	piece	1,908.00	6,502.0	340.8	
	Demolition of walls	m ³	244.00	509.23	208.00	
	Demolition of buildings	m ³	92,700.00	58,369.72	62.96	
II. Earthworks						
2	Topsoil removal	m ³	56,000.00	9,466.13	16.90	
	Removal of unacceptable soil at any level, withdrawal at stockpile/embankment area (according to the instruction)	m ³	137,520.24	491,618.40	357.48	
	Arrangement of embankment material to design level	m ³	603,734.55	815,475.72	135.07	
	Provision, allocation and compaction of acceptable material from the borrow pit at weak and hollow areas	m ³	6,890.00	13,789.63	200.13	
	Filling the embankment with soil excavated from Tunnel	m ³	320,519.00	117,535.59	36.67	
III. Water Culverts and Drainage						
3.1	Cast-in-situ RC culvert - sq. m. 6,00 X 5,0m	piece	7	7	100	
	Precast RC culvert - sq. 2,500 X 2,50m	piece	3	3	100	
	Precast RC pipe - d= 1,50m	piece	31	31	100	
	Precast RC pipe - d= 1,00m	piece	7	7	100	
	Precast RC (double) pipe - d= 2X1,50m	Piece	2	2	100	
	Metal pipe - d=0,50m	Piece	4	0	0	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	Lengthening of Cast-in-situ RC culvert - sq. m. 1,30m X 1,80m	Piece	1	1	100	
	Lengthening of Cast-in-situ RC culvert - sq. m. 1,50m X 1,50m	Piece	1	1	100	
Additional Culvert						
3.2	Cast in situ RC culvert – sq.5,000 X 2,50m	piece	1	1	100	
	Cast in situ RC culvert - sq.5,000 X 4,00m	piece	1	1	100	
Design Variation						
3.3	Cast-in-situ RC culvert - sq.1,500 X 1,20m	piece	1	1	100	
	Cast-in-situ RC round culvert d-1.5m	piece	2	2	100	
	Cast-in-situ RC box culvert Section 2,50m X 2,50m	piece	1	1	100	
IV. Slope Stabilization						
RC Retaining Walls						
4.1	km 0+160 - km 0+400	m	240.00	216.00	90.00	
	Km 2+178 – km 2+215	m	37.00	37.00	100	
	km 3+941 - km 3+951	m	10.00	10	100	
	km 7+534 - km 7+663	m	149.80	149.80	100	
	Km 8+730 – km 8+760	m	10.00	0	0	
	km 9+470 - km 9+480	m	10.00	0	0	
	km 11+ 530 - km 11+540	m	10.00	10.00	100	
	km 11+ 580	m	10.00	10.00	100	
	Km 0+310 – km 0+377 (CL203)	m	73.92	73.92	100	
	Km 5+955 – km 5+994	m	30.85	30.85	100	
	Km 12+097	m	18.4	18.4	100	
Gabion Wall						
4.2	km 0+230 - km 0+265	m	35.00	0	0	CL 103
	km 0+850 - km 0+904	m	54.00	0	0	CL 103
	km 12+475 - km 12+725	m	250.00	0	0	
	km 12+814	m	50.00	0	0	Left
	km 12+814	m	48.00	0	0	Right
	km 12+831	m	50.00	0	0	Left

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	km 12+831	m	54.00	0	0	Right
	km 13+940 - km 14+120	m	180.00	0	0	
"Terramesh" System						
4.3	"Terramesh" system arrangement	m	2769.00	0	0	
Design Variation						
4.4	Slope stabilization by soil nailing at section km10+102 - km10+340	m	238.00	238.00	100	
4.5	Drilled and filled RC pile wall at section km 11+ 460 - km 11+503	m	43.00	43.00	100	
4.6	Reinforced concrete supporting wall at section km 11+513 - km 11+585	m	72	72	100	
4.7	RC Retaining Wall (CL 203) at Km 0+310 – Km 0+377		73.6	73.6	100	
4.8	Drilled and filled RC pile wall at section km 9+244 - km 9+340	m	96	96	100	
4.9	Drilled and filled RC pile wall at section km 9+340 - km 9+440	m	100	100	100	
4.10	Slope strengthening by earth anchors at section km9+440 – km9+520	m	80	80	100	
4.11	RC Retaining Wall at Km0+080-Km0+110	m	38.85	38.85	100	
4.12	RC Retaining Wall at Km0+080-Km0+110	m	30	30	100	
4.13	CL 300 – CL 301 RC Retaining Wall	m	84.35	84.35	100	
4.14	Km 12+465 – Km 12+720 RC Retaining Wall	m	465.0	465.0	100	
4.15	Km 5+955 – Km 5+794 RC Retaining Wall	m	30.85	30.85	100	
4.16	Km 5+476 – Km 5+636 RC Piled Wall	m	160	160	100	
4.17	Km 0+612 – Km 0+686 RC Retaining Wall	m	60.60	60.60	100	
V. Bridges						

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
5	Bored piles: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	1,558.00	1,558.00	100	
	Pile cap: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	142.00	142.00	100	
	Column: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	282.00	282.00	100	
	Crossbar: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	120.00	120.00	100	Construction in progress
	Back wall and wingwall: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	36.00	36.00	100	Construction in progress
	Installation RC beams: BR-01 - BR-05; BR-07; BR-07.1; BR-12/13; BR-12/13A; BR-14: BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A	Unit	667	667	100	
	Unification of prestressed beams by cast in situ RC concrete slab	m	4,669.0	4,669.0	100	Construction in progress
5.1	Construction of cast in situ sidewalk	m	4,669.0	4,669.0	100	
5.2	Construction of cast in situ rails	m	4,669.0	4,420	94,7	Construction in progress
5.3	Expansion (temperature) joints	Unit	95	95	100	
5.4	Binder course	m ²	54,564.00	54,564.00	100	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
5.5	Base course	m ²	54,564.00	54,564.00	100	
5.6	Wearing course	m ²	54,564.00	54,564.00	100	
5.7	Handrail	m	9,625.62	8,632.6	89.7	
VI. Tunnels						
Tunnel No. 3						
6	Arrangement of outside utility channel	m ³	77	77	100	
	Concrete lining works	m ³	77	77	100	
	Arrangement of the emergency exit	m	70	70	100	
	Tunnel Service Building				90	
	Gravel foundation	m ³	7,391	7,391	100	
	Drainage system arrangement	m	805	805	100	
	Utility Box arrangement	m	1610	1610	100	
	Construction of pile wall system at the exit portal				100	
	Construction of pile wall system at the entrance portal	u	101	101	100	
	Soil excavation at the exit portal				100	
	Tunnel excavation and installation temporary lining	m	749.0	749.0	100	
	Construction of permanent lining	m	749.0	749.0	100	
	Arrangement of Portal part	m	56	56	100	
	Concrete pavement	m	805	805	100	
Tunnel No. 4						
7	Arrangement of outside utility channel				100	
	Construction of pile wall system at the exit portal	u	203	203	100	
	Utility channel	m	2,134	2,134	100	
	Soil excavation at the entrance portal	1000 m ³	51.25	51.25	100	
	Tunnel excavation and installation temporary lining	m	843.0	843.0	100	
	Construction of permanent lining	m	843.0	843.0	100	

N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	Arrangement of the Portal Part	m	224.00	224.00	100	
	Arrangement of the Drainage System	m	1,067.00	800.00	75.00	
	Concrete pavement	m	1067	1067	100	
	Tunnel Service Building				90	
	Backfilling works at exit portal				10	
Tunnel No. 5						
8	Arrangement of operational control center				100	
	Gravel foundation	m ³	1,069	1,069	100	
	Tunnel excavation and installation of temporary lining				100	
	Portal excavation				100	
	Installation of waterproofing	m ²	20,650.0	20,650.0	100	
	Installation perforated PVC pipes	m	1,084.00	1,084.0	100	
	Filter concrete (C12/15)	m ³	8.0	8.0	100	
	Cast-in-situ concrete for drainage	m ³	20,030.0	20,030	100	
	Installation reinforcement frame	t	323.0	323.0	100	
	Tunnel lining (permanent lining)	m	542	542	100	
	Construction of portal part	m	45	45	100	
	Communication Channel	m	1084	1084	100	
	Arrangement of Drainage System	m	587	587	100	
	Concrete pavement	m	587	587	100	
	Tunnel Service Building				90	
Tunnel No. 1						
9	Tunnel Service Building				90	
	Arrangement of the Piled Wall System at the Entrance Portal	u	131	131	100	
	Construction of pile system wall at the exit portal	u	131	131	100	

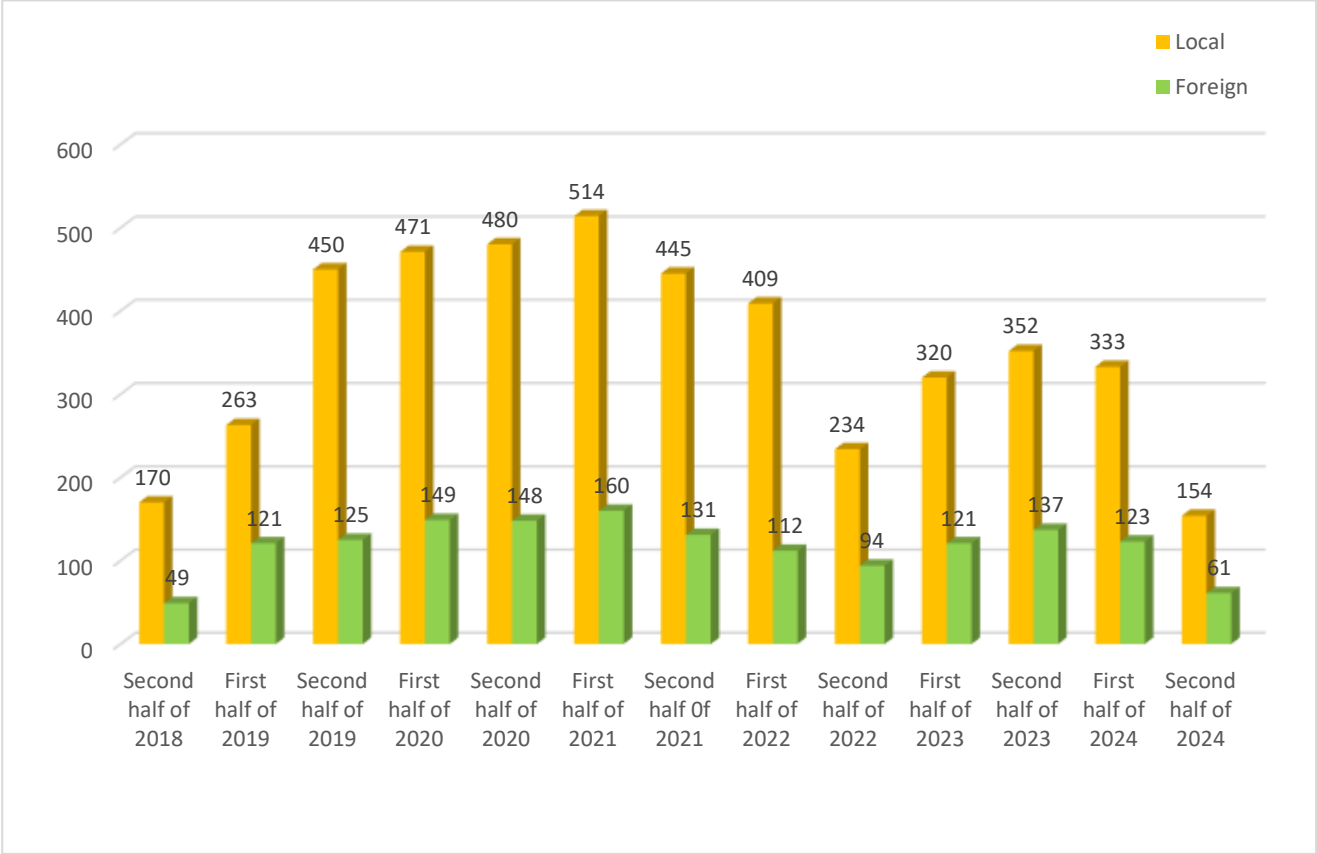
N	WORK DESCRIPTION	DIMENSION	DESIGN	ACTUAL	%	NOTE
	Tunnel excavation and construction of temporary lining	m	465	465	100	
	Arrangement of drainage system	m	542	542	100	
	Vertical Jet Grouting	u	625	625	100	
	Tunnel lining (permanent lining)	m	542	542	100	
	Installation of waterproofing	m ²	19,068.0	19,068.0	100	
	Construction of Portal section	m	77.0	77.0	100	
	Concrete pavement	m	542	542	100	
	Crushed base	m ³	1,069	1,069	100	
	Arrangement of outside utility channel				80	
Tunnel No. 2						
10	Construction of pile system wall at the entrance portal	u	119	119	100	
	Tunnel excavation and construction of temporary support	m	720	720	100	
	Construction of pile system wall at the exit portal	u	96	96	100	
	Installation of waterproofing	m ²	211.18	211,18	100	
	Installation perforated PVC pipes	m	1366.0	1,366	100	
	Cast-in-situ concrete for drainage	m ²	23.55	23.55	100	
	Tunnel lining (permanent lining)	m	705.0	705.0	100	
	Installation of waterproofing	m	705.0	705.0	100	
	Construction of Portal section	m	102.0	102.0	100	
	Tunnel Service Building				90	
	Gravel foundation	m	705.0	705.0	100	
	Concrete pavement	m	102.0	102.0	100	
	Arrangement of outside utility channel				80	

20. In December 2024 the total number of personnel is 215, 61 of whom are foreigners and 154 are locals (Table 5). The reduction in local staff from 333 to 154 was due to the completion of main construction activities, while the environmental team remained unaffected, ensuring continued compliance with environmental management requirements.

Table 5 Contractor's Personnel as of December 2024

N	POSITION	POLATYOL		SUBS		SUM
		Foreign	Local	Foreign	Local	
1	Project Manager	1	0	0	0	1
2	Site Manager	1	0	0	0	1
3	Engineer staff	5	0	0	0	5
4	Technical office	4	1	0	0	
5	Technicians	3	0	0	0	3
6	Skilled Labour	12	41	0	0	53
7	Unskilled Labour	1	24	0	0	25
8	Driver	1	30	0	0	31
9	Operator	7	9	0	1	17
10	Finance & Administration	1	2	0	0	3
11	HSE Team	1	6	0	0	7
12	Environmental Manager	1	0	0	0	1
13	Foreman	6	0	0	0	6
14	Repairman	8	0	0	0	8
15	Security	0	27	0	0	27
16	Forest Expert	0	0	0	0	0
17	Mechanical Department	2	1	0	0	3
18	Tunnel works Subcontractor	0	0	0	0	0
19	Concrete works (Subcontractor)	0	0	0	0	0
20	Pile construction team (Subcontractor)	0	0	0	0	0
21	Blasting works (Subcontractor)	0	0	0	0	0
22	Stone column works (Subcontractor)	0	0	0	0	0
23	Pre-cast beam (Subcontractor)	0	0	0	0	0
24	Designer	1	0	0	0	1
25	Catering service Subcontractor	0	0	6	12	18
26	Concrete Road Subcontractor	0	0	0	0	0
Total		55	141	6	13	215

Figure 3 Contractor's Personnel as of December 2024



2.4 Changes to Project Design and Agreed Construction Methods

21. There were no changes in the project design during the reporting period.

Table 6 Summary of Civil Works Contracts and Work Progress

Scope	Contractor	Signed	Approval Date		Environmental Personnel		Civil Work		(%) Progress as of	
			SSEMP	COVID-19 HSMP	Environmental Officer	Health and Safety Officer	Start	End	30 June 2024	31 Dec 2024
Construction of Batumi Bypass Road Project	JV Polatyol & Mapa	29.08.2017	30 May 2018	30 March 2019	Jaba Mzhavanadze	Ayaz Abdurahmanov	06.07.2018	30.09.2024	85.40 %	95.01 %

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

22. Throughout the weekly monitoring sessions, the Environmental Specialists designated by the Engineer, namely Mr. Tengiz Lagidze (national) and Mr. Davit Tevzadze (national), conducted assessments. Their evaluations focused on scrutinizing the Contractor's activities with regard to environmental impact and assessing the Contractor's adherence to the environmental stipulations outlined in the Project's requirements.
23. The Engineer's international Environmental specialist Mr. Michael Holics was mobilized twice during the reporting period: from 20 August to 15 September and from 22 October to 24 November. During this period, Mr. Holics worked with the Engineer's local Environmental Specialists, undertaking site visits and participating in the Engineer's Weekly Progress Meetings, as well as HSE Meetings with the Contractor.
24. With respect to site assessment, in addition to weekly visits to relevant sites, at the end of each month there were full in-depth site visits undertaken by the Engineer and findings were sent to the Contractor for follow-up.
25. The External Environmental Monitoring Firm (EEMF) Ecospectri Ltd conducted a site inspection at BBRP on 21 November. Representatives of Ecospectri Ltd on behalf of RD conducted the site inspection to verify compliance with the Contractor's Environmental Management Plans (EMPs) and progress toward the expected outcomes. The EEMF will document the monitoring results, identify the necessary corrective actions, and include them in a corrective action plan. The monitoring results are not presented during the reporting period.
26. Where non-compliance was detected during the monitoring process, the non-compliance was recorded with photo evidence, and an Environmental Non-Conformance Report (ENCR) prepared and sent to the Contractor. The list of ENCRs sent to the Contractor by the Engineer, where the above-mentioned environmental issues are described and copies of the ENCRs are included in Annex 6 – ENCRs of this Report.
27. The Engineer's environmental specialists prepared monthly, quarterly, and semi-annual reports, which were submitted to the Road Department. These reports summarise all construction activities and their environmental impact; describe the Environmental Specialist's monitoring and site inspection activities; and lists ENCRs (and their status) issued to the Contractor.
28. The Contractor's Environmental Specialist Mr. Rashad Kerimov (International) was not mobilized on site during the reporting period.

3.2 Site Monitoring/Inspections

29. In the second half of 2024 (July-December) the Engineer's Environmental Specialists Mr. Tengiz Lagidze and Mr. Davit Tevzadze conducted weekly monitoring of the following Project sites:
 - ▶ Office and accommodation camp of the Contractor
 - ▶ Construction camp of the Contractor
 - ▶ Access roads to Bridges and Tunnels
 - ▶ Tunnel No 1
 - ▶ Tunnel No 2
 - ▶ Tunnel No 3
 - ▶ Tunnel No 4
 - ▶ Tunnel No 5
 - ▶ Bridge Nos 1, 2, 3, 3.1, 4, 5, 6, 6a, 7, 7.1, 8, 8a, 9, 10, 11, 12, 13, 13.1, 14

- ▶ Road sections
- ▶ Interchanges 1, 2, 3, 4
- ▶ Precast yard
- ▶ Concrete mixing plant 1.

30. The International Environmental Specialist also participated in weekly inspections when at site.

3.3 Environmental Issues Tracking

31. During the reporting period, the works had a very low progress, however, numerous non-compliances were identified at various Construction sites. Common non-compliances included:

- Construction and household (plastic containers etc.) waste pollution;
- Waste concrete and asphalt contamination;
- Improperly stored materials;
- Metal scrap waste is not properly disposed;
- Waste burning on site.

32. Issues were tracked via letters (See Table 10 Correspondence) and Non-Conformance (See Annex 7 ENCRs) notices. The number of non-conformances is summarized in Table 7 for the current reporting period, as well as from the start of the Project to date.

Table 7 Summary of Environmental Issues Tracking Activity for the Project

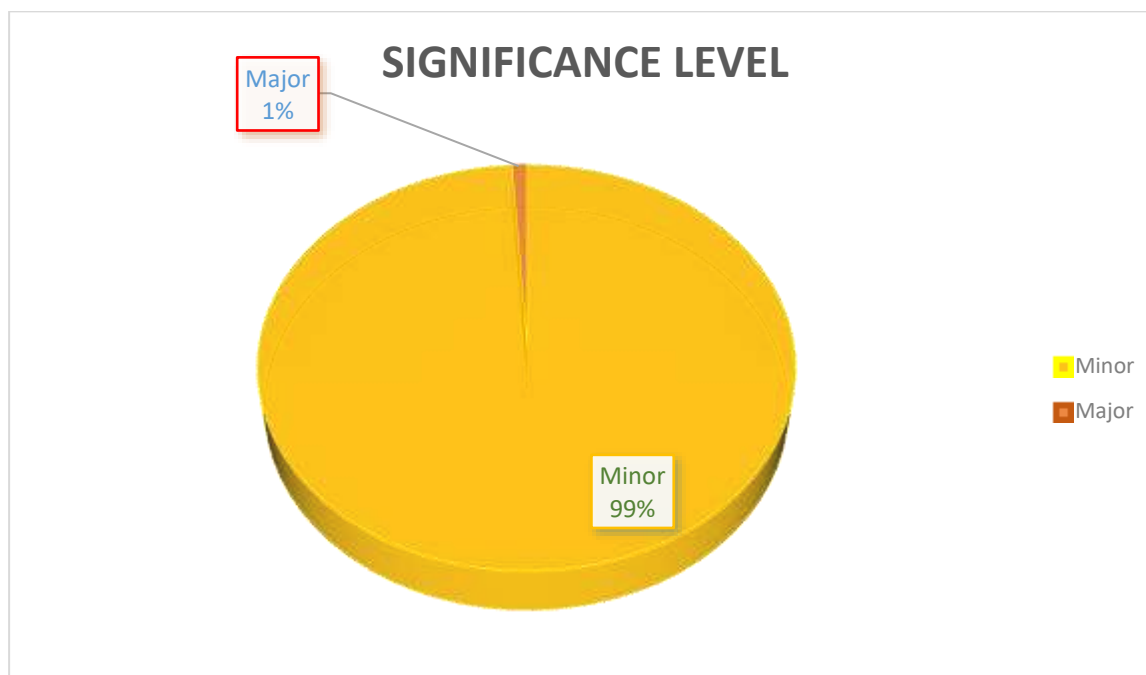
Total Number of ENCRs for the Project	
Number of Issues Raised since start of Project	183
Number of Open Issues	2
Number of Closed Issues	181
Percentage Closed	99%
Issues Opened this Reporting Period (July–December 2024)	5
Issues Closed this Reporting Period (July–December 2024)	3

Note: As per the Engineer's ENCR register, ENCR 180: contamination of the territory with construction and household waste, and ENCR 183: the aforementioned territory is contaminated with scattered construction and household waste, are currently unresolved and remain open. ENCR_180 was due to be closed on 21 July 2024 and ENCR_183 was due to be closed on 15 November 2024. The Contractor has been requested to take urgent action to close these ENCRs as soon as possible.

Building upon the information provided in Table 7, Figure 4 below delineates the environmental issues categorized by significance levels, ranging from Minor to Major. The Engineer conducts individual assessments for each issue based on the scale of violation and its impact on the environment. Figure 4

visually represents the percentage distribution of minor and major environmental issues observed during the reporting period. A risk assessment matrix was used to determine the level of significance of Environmental issues (minor vs. major).

Figure 4 Summary of Non-Conformance by Significance Level



33. Out of the 5 aforementioned non-conformances, 3 have been successfully resolved. These issues underwent comprehensive follow-up procedures facilitated through the issuance of Environmental Non-Conformance Reports (ENCR) and official correspondence from the Engineer. The letters from the Engineer outlined clear and established deadlines for the implementation of corrective actions. For a more in-depth understanding of the non-conformances, additional details are provided in Table 9.
34. Copies of the issued Environmental Non-Conformance Reports (ENCRs), inclusive of the outlined corrective measures, along with accompanying photographic documentation, are available for reference in Annex 7 – [ENCRs].

3.4 Non-Conformance Notices

35. Table 8 provides the status of implementation of the corrective actions from ENCRs that remained open from the January-June 2024 environmental monitoring report.
36. The Contractor has been duly notified of the impending environmental issues, and an action plan has been devised to guide the implementation of corrective measures within a specified timeframe for the mitigation of non-conformances. Detailed information regarding the non-conformances observed during the reporting period is presented in Table 9. In some cases, the implementation of mitigation measures to address non-compliance was delayed, as the Contractor reassigned Environmental personnel to other, for the Contractor higher-priority tasks (e.g., installation of road signs and similar activities).

Table 8 Status of open non-conformances for the last reporting period January-June 2024

N	ENCR	DATE ISSUED	LOCATION	DESCRIPTION	CORRECTIVE ACTIONS	SPECIFIED CLOSING DATE	STATUS
1	ENCR 176	14/06/2024	Tunnel No. 1 Entrance Portal	Construction waste placed on the ground and burning of waste on the construction site.	Area was cleaned from placed and burnt waste. Necessary training was conducted.	16/06/2024	Closed 05/08/2024
2	ENCR 177	18/06/2024	Tunnel No. 3 Entrance Portal	Scattered construction waste and burning of waste on the construction site.	Territory was cleaned from burnt and scattered waste. Necessary toolbox talk was conducted.	21/06/2024	Closed 05/08/2024
3	ENCR 178	18/06/2024	Tunnel No. 5 Exit Portal	Scattered construction and household waste.	Construction and household waste was removed from area. Necessary training was conducted.	21/06/2024	Closed 05/08/2024

Note: There are no open non-conformances pending from the last Semi-Annual Environmental Monitoring Report.

Table 9 Identified non-conformances for July-December 2024 reporting period

N	ENCR	DATE ISSUED	LOCATION	DESCRIPTION	CORRECTIVE ACTIONS	SPECIFIED CLOSING DATE	STATUS
1	ENCR 179	08/07/2024	Bridge No. 10	On the sidewalk /pavement of the Bridge No. 10, which currently does not have a guardrail, some asphalt residue/waste material is located, this material poses a hazard to vehicles and pedestrians on the local Road directly below the Bridge.	Waste asphalt was removed from 10th bridge.	10/07/2024	Closed 26/08/2024
2	ENCR 180	10/07/2024	Contractor's office and Residential Camp Area	Contamination of the territory with construction and household waste.		21/07/2024	Open

3	ENCR 181	25/07/2024	Tunnel No. 2 Entrance Portal	Cement mixture water and concrete waste spilled on the ground from a concrete truck. Due to the absence of a trash bin at the construction site, the construction site and the adjacent drainage channel are contaminated with scattered household waste (disposable plastic food containers, etc.).	Concrete waste and cement mixed with water were removed from the site. Area was cleaned from household waste. Necessary toolbox was conducted. All works are finished.	29/07/2024	Closed 04/09/2024
4	ENCR 182	09/09/2024	Tunnel No. 1 Exit Portal	In the drainage channel near Tunnel No. 1, cement-mixed water and concrete waste were spilled from the concrete truck. Due to the absence of trash bins at the construction site, the construction site and the drainage channel located adjacent to it are contaminated with construction and household waste (disposable plastic food containers, etc.). Concrete blocks and asphalt waste.	Adjacent area of the exit portal of the tunnel No 1 was cleaned. The works are completed.	16/09/2024	Closed 15/11/2024
5	ENCR 183	06/11/2024	Tunnel No. 1 Exit Portal, Beginning of Bridge No. 3, Interchange No. 1	Concrete blocks, concrete and asphalt waste. The aforementioned territory is contaminated with scattered construction and household waste.		15/11/2024	Open

37. Table 10 lists correspondence sent to the Contractor regarding environmental issues.

Table 10 Correspondence Regarding Environmental issues

NO	DATE	REF. NO.	SUBJECT
1	11/07/2024	5015001/2/3676	Regarding the Burning of Waste in the Open Air
2	31/07/2024	5015001/2/3697	Regarding the Hazardous Waste
3	08/08/2024	5015001/2/3708	Contamination of the construction area with waste
4	30.08.2024	5015001/2/3728	Implementation of the Revised Compensatory Tree Planting Plan
5	23/08/2024	5015001/2/3722	Mobilization of International Environmental Specialist
6	30/08/2024	5015001/2/3730	Site Cleanup and Rehabilitation of Work Sites
7	03/09/2024	5015001/2/3736	Regarding the Testing of the Environmental Parameters
8	04/09/2024	5015001/2/3738	Contamination of the Construction Site with Waste
9	07/09/2024	5015001/2/3741	Meeting with RD on Outstanding Environmental Issues
10	13/09/2024	5015001/2/3749	Environmental Meeting in the Engineer's Office 12 September Management of Hazardous Waste
11	29/10/2024	5015001/2/3791	Regarding the Plan for Cleaning and Rehabilitation of Construction Sites from Construction Waste
12	04/11/2024	5015001/2/3800	Regarding the Construction Waste Placed under the Bridges
13	12/11/2024	5015001/2/3806	Remedial Measures for Recent Landslide at Interchange-1 (RHS) of Batumi Bypass Road Project (BBRP)
14	18/11/2024	5015001/2/3821	Reminder for Completion of Road Shoulder Works and Slope Protection
15	22/11/2024	5015001/2/3824	Environmental Management on Site
16	11/12/2024	5015001/2/3840	Regarding the Environmental Issues
17	11/12/2024	5015001/2/3842	Ecological Monitoring
18	27/12/2024	5015001/2/3859	Regarding the Waste Under the Bridges
19	27/12/2024	5015001/2/3862	Regarding the Open Environmental Non-Conformance Reports (ENCRs)

3.5 Disposal of Spoil Material from Tunnels and Work Site Rehabilitation

38. The Contractor utilizes the space under bridges for the temporary storage of spoil material excavated from tunnels so that the spoil material can be more easily used for construction activities. The Contractor proposes to remove the spoil material to landfill once construction

has been completed. The Engineer has requested the Contractor to progressively remove spoil material in those areas where construction has been completed and the spoil material can no longer be used on site as it is becoming an eyesore, and in some cases has the potential to pollute nearby watercourses. The Engineer prepared a waste matrix spreadsheet showing the location of all sites where waste (including construction waste) needed to be removed together with a schedule for the waste removal and site clean-up. The document was designed to be a live document to be updated progressively as sites were cleaned up. The Engineer sent the draft Schedule of site clean-up and rehabilitation to the Contractor on April 20, 2024 (Reference Letter No. 5015001/2/3570). The Contractor was instructed to update the document with performance dates and submit it to the Engineer for review by April 25, 2024. The Contractor submitted the updated document to the Engineer at the end of December 2024 and has commenced site cleanup activities. Please see Annex 2 and Annex 7 for the Construction Site Cleanup and Rehabilitation Plan/Schedule.

3.6 Trends

39. Most of the violations by the Contractor are related to waste management. The Engineer has recommended that the Contractor implement disciplinary measures to its site supervisors to improve site environmental management. To date, the Contractor has not enforced any disciplinary measures. However, pollution from construction waste has decreased due to the reduction of the amount of work undertaken since the BBRP was opened to Traffic on 11th October 2024. For example, the number of non-compliances has decreased from 16 in the previous period to 5 in the reporting period, indicating an improvement in the current Environmental condition.

3.7 Unanticipated Environmental Impacts or Risks

40. No unanticipated environmental impacts or risks were observed during the reporting period.

3.8 Compensatory Tree Planting Works

41. The Contractor has completed the cutting of trees and the number of trees removed for the Project and their locations are given in Annex 9.
42. In February 2024, a Compensatory Tree Planting Plan was prepared, covering all aspects related to tree planting, including the location of the planting site, spacing between trees, selected species, plant characteristics and quantities, as well as initial maintenance considerations. Species selection prioritizes native, drought-resistant, and ecologically valuable plants, while tree spacing is designed to support healthy growth and soil stabilization.
43. To ensure long-term vegetation establishment, a maintenance plan covering at least two years after planting will be developed, addressing essential activities such as watering, soil care, and protective measures. Additionally, a replacement strategy for trees that fail to establish during the monitoring period will be incorporated into the plan.
44. The contractor is required to ensure an 80% survival rate of the planted trees and will be responsible for implementing replacement planting as needed to achieve this target.
45. The Compensatory Tree Planting Plan was approved by the Employer on June 11, 2024 (Letter Reference No. 2-08/8363). In total, 2,513 trees will be planted as a compensation measure at 9 sites identified within the selected area. The preferable period for planting the selected deciduous or evergreen tree species is during September November or March April. According to the approved plan, the Contractor should plant compensation trees from September 2024 to October 2024. However, the Contractor missed the specified period for planting the trees. Also, the Contractor has not yet submitted to the Engineer the signed

agreement with the sub-contractor 'Seedlings of Georgia' Ltd. After consulting with RD, the Contractor now plans to carry out the planting of compensatory trees from March 2025 to April 2025. As for the postponement of the planting period (originally scheduled for September–October 2024) from 09 April 2025 to 25 April 2025, the main reason is the lack of financial resources.

46. The Engineer is yet to receive technical and financial proposals for review regarding landscaping of steep slopes and Tunnel portals. However, the Contractor has stated in its Program of Remaining Works dated 21 December 2024, that it plans to undertake landscaping and embankment seeding in March-April 2025.

3.9 Noise Barrier Construction

47. The implementation of the technical specifications for the noise barriers — including their height, materials, expected noise reduction levels, and coverage area — as well as the execution of all related works, is planned for the summer of 2025, in line with the Contractor's "Program of Remaining Works." The timeline has been preliminarily coordinated to coincide with the peak tourist season, aiming to maximize the effectiveness of the noise mitigation measures during periods of highest traffic intensity.
48. At this stage, specific details regarding the exact schedule and technical parameters are still under development and will be finalized closer to the implementation period.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Contractor's Environmental Monitoring during the Reporting Period.

4.1.1 Water Quality Monitoring

49. During the reporting period the Contractor engaged an independent laboratory LEPL Laboratory Research Centre to conduct chemical/metal analysis of water samples from rivers near the Project. The location of water sampling sites and parameters measured is in accordance with the SSEMP. Results can be found in Annex 6 Water Quality Monitoring Results. The results of water quality tests are within Maximum Permissible Concentrations (see Table 11). The studies were primarily carried out near rivers due to ongoing construction activities in those areas, where there was a risk of contamination resulting from the works. Regarding the sampling and transportation methods, the samples were collected and transported by a specialist from the LEPL Laboratory Research Center, in accordance with the technical regulation "On the Approval of Sanitary Rules for Water Sampling," approved by Government Decree No. 26 of 3 January 2014.

Table 11 Chemical and Bacteriological Analysis of River Water - quality sampling undertaken on September 12, 2024

N	Parameter	Makhvilauri km11+500	Benze km4+700	Makhinjau ri km1+950	Makhinjau ri km0+550	Gorodoki km7+500	Maximum Allowable
1	Chlorides	15.6 mg/l	13.0 mg/l	14.2 mg/l	20.6 mg/l	23.3 mg/l	350 mg/l
2	Sulphates	9.5 mg/l	9.7 mg/l	12.0 mg/l	8.3 mg/l	10.3 mg/l	500 mg/l
3	Poly-phosphates	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	5 mg/l
4	Nitrates	0,2 mg/l ± 0,04 mg/l	0,18 mg/l ± 0,036 mg/l	0,14 mg/l ± 0,028 mg/l	0,12 mg/l ± 0,024 mg/l	0,1 mg/l ± 0,02 mg/l	25 mg/l
5	Alkalinity	1.4 mmol/dm ³	1.41 mmol/dm ³	0.82 mmol/dm ³	1.4 mmol/dm ³	0.8 mmol/dm ³	-
6	Lead	<0.002 mg/l	0.002 mg/l	0.002 mg/l	0.002 mg/l	0.002 mg/l	0.03 mg/l
7	Zinc	0.09 mg/l	0.1 mg/l	0.09 mg/l	0.11 mg/l	0.08 mg/l	1 mg/l

50. During the reporting period, the Contractor submitted the results of water quality monitoring conducted on 12.09.2024. Maximum allowable limits are based on Georgian standards for surface water quality as approved by the Ministry of Labour, Health and Social Protection. According to EIA Table No. 10-5 [Environmental Monitoring Program during Construction and Operation Phases], water analysis is to be conducted once per quarter. However, the monitoring scheduled for November was not carried out in the fourth quarter of the reporting year following the road opening.

4.1.2 Noise Measurement Results

Table 12 Noise Measurement Results

Location	12 September 2024 - Monitoring (max db)
Makhinjauri km 0+550 15:35 p.m.	42.3 db
Makhinjauri km 1+950 15:15 p.m.	44.0 db
Benze km 4+700 14:50 p.m.	45.5 db
Gordoki km 7+500 16:10 p.m.	40.9 db
Makhvilauri km 11+500 14:15 p.m.	43.0 db

51. Georgian and IFC EHS noise standards indicate a 55 dB (A) limit for daytime and 45 dB (A) limit for nighttime noise levels. The noise measurement results in Table 12 are within both the permissible daytime and nighttime limits.
52. Certified laboratory LEPL Laboratory Research Centre has measured the parameters of atmospheric air and noise at the Contractor's office/accommodation camp and several construction sites according to the construction activities. Results of tests are enclosed as **Annex 4** (Atmospheric Air Quality Monitoring Results) and **Annex 5** (Noise Monitoring Results) to the report.

4.1.3 Vibration Monitoring Results

53. It is important to mention that no blasting activities were performed during the reporting period. The Contractor did not conduct vibration measurements during the reporting period, as they have not received any complaints. For this reason, no measurement results were submitted to the Engineer.

4.1.4 Air Quality (PM2.5 and PM10)

54. The Contractor measured PM2.5 and PM10 twice during the reporting period (14.09.2024 and 08.11.2024) (see Table 13).

Table 13 Summary of Air Quality Measurements (PM2.5 and PM10)

Measurement was undertaken on 14/09/2024.

Measurement Parameter			Value	Source of Pollution
PM2.5 ($\mu\text{g}/\text{m}^3$)	Allowable Concentration	24 Hour	25	Construction Works
	Result - Location N1	20 Minute	6	
	Result - Location N2	20 Minute	6	
	Result - Location N3	20 Minute	10	
	Result - Location N4	20 Minute	9	
	Result - Location N5	20 Minute	8	
PM10 ($\mu\text{g}/\text{m}^3$)	Allowable Concentration	24 Hour	50	
	Result - Location N1	20 Minute	9	
	Result - Location N2	20 Minute	10	
	Result - Location N3	20 Minute	23	
	Result - Location N4	20 Minute	21	
	Result - Location N5	20 Minute	13	

Measurement was undertaken on 08/11/2024.

Measurement Parameter			Value	Source of Pollution
PM2.5 ($\mu\text{g}/\text{m}^3$)	Allowable Concentration	24 Hour	25	Construction Works
	Result - Location N1	20 Minute	7	
	Result - Location N2	20 Minute	5	
	Result - Location N3	20 Minute	7	
	Result - Location N4	20 Minute	4	
	Result - Location N5	20 Minute	2	
PM10 ($\mu\text{g}/\text{m}^3$)	Allowable Concentration	24 Hour	50	
	Result - Location N1	20 Minute	10	
	Result - Location N2	20 Minute	11	
	Result - Location N3	20 Minute	25	
	Result - Location N4	20 Minute	9	
	Result - Location N5	20 Minute	4	

55. Monitoring of air quality took place on 14.09.2024 and 08.11.2024 at five Project locations. Allowed Norms are based on World Health Organisation (PM2.5, PM10) and Georgian legislation (PM10).

56. Certified laboratory has measured the parameters of air quality at the Contractor's office/accommodation camp and several construction sites according to the construction activities. Results of tests are enclosed as **Annex 3** Air Quality Monitoring Results to the report.

4.1.5 Atmospheric Air Quality

57. During the reporting period, the Contractor submitted the results of atmospheric air quality monitoring conducted on 12.09.2024. Monitoring of atmospheric air quality took place at five Project locations.

Table 14 Summary of Atmospheric Air Quality Parameters Measured

No.	Parameter	Measurement results by Location				
		Makhinjauri 0+550	Makhinjauri 1+950	Benze settlement 4+700	Gorodoki settlement 7+500	Batumi Makhvilauri 11+500
1	Nitrogen dioxide (NO ₂)	Not detected	0.01 mg/m ³	Not detected	Not detected	Not detected
2	Hydrogen sulfide (H ₂ S)	Not detected	Not detected	Not detected	Not detected	Not detected
3	Sulfur dioxide (SO ₂)	Not detected	Not detected	Not detected	Not detected	Not detected
4	Carbon Oxide (CO)	Not detected	Not detected	Not detected	Not detected	Not detected
5	Dust	0.03 mg/m ³	0,04 mg/m ³	0,03 mg/m ³	0,04 mg/m ³	0.03 mg/m ³
6	Hydrocarbons (C _n H _m)	Not detected	Not detected	Not detected	Not detected	Not detected

4.1.6 Test Result of Soil

58. Considering the discussions held with the Employer during the last site visit of ADB, the Engineer instructed the Contractor to conduct an analysis of the soil removed from the Batumi Oil Terminal regarding contamination with petroleum products.

59. The contractor submitted the result of soil testing conducted on 09.12.2024. The testing was conducted on the soil placed under the Bridge No. 5, which was removed from the Batumi Oil Terminal during construction of bridge piers. The testing was carried out by the Testing Laboratory of Research Center "GAMMA" Ltd. The test result can be found in Table 15.

Table 15 Test Result of Soil

N	Name of the sample	Lab. Reg. No	TPH mg/kg
1	N1 soil	2024 S	< 2.0
	Test method		GL – SOP-SCh-19 – G-24 validating method
	Maximum permissible coefficient		1000

60. According to the submitted Protocol, the obtained result (< 2.0) is lower than the maximum permissible coefficient (1000). Result of test is enclosed as **Annex 10** Test Result of Soil to the report.

4.2 Summary of Monitoring Outcomes

61. The current air quality monitoring results by the Contractor meet Georgian standards.
62. Noise and Water quality testing results meet the norms established by the legislation of Georgia and IFC standards.
63. An indicator of Environmental performance is the decrease in the number of non-compliances from 16 in the previous period to 5 in the reporting period which reflects an improvement in the current Environmental condition.

4.3 Material Resources Mobilisation

64. Between July and December 2024, the Contractor (see Table 16) mobilized the following materials on site:

Table 16 Material Mobilization

N	MATERIALS	UNIT	QUANTITY
1	Gravel from Quarry Site	m ³	0
2	Reinforcement steel	T	228,48
3	Cement	T	4256,11
4	Additives	T	56
5	Explosives	T	0

65. The Contractor utilizes its Construction Campsite for the storage and utilization of scrap material. Periodically, the scrap material is sold to various companies based on the prevailing market price of metal. This approach demonstrates a systematic and economic approach to managing and repurposing construction-related waste.

4.4 Waste Management

66. The Contractor has prepared a detailed plan for Waste Management which includes an agreement with "Sanitary" Ltd for hazardous and non-hazardous waste, as well as an agreement with "Sandasuftaveba" Ltd for disposal of sewage water and household waste (see Table 17). Please see Annex 2 for the Construction Site Cleanup and Rehabilitation Plan/Schedule.

Table 17 Waste Management

Contractor data during the reporting period				
No.	Domestic/Hazardous Waste and Sewage	Estimated Volume	Storage Area	Licensed Company
1	Wastewater, including sewage	47 m ³	Camp septic tanks	"Sandasuftaveba" LTD
2	Domestic waste	85 m ³	Camp and Plant Yard wastebaskets	"Sandasuftaveba" LTD
3	Used tires	36 pcs	Workshop designated area	"Sanitary" LTD
4	Used batteries	52 pcs	Workshop designated area	"Sanitary" LTD
5	Hydraulic and used oil	196 liters	Oil Change designated area	"Sanitary" LTD
6	Paint and other chemicals	1.1 m ³	Workshop designated area	"Sanitary" LTD
7	Chemical additive tanks	25 pcs	Plant yard designated area	"Sanitary" LTD
8	Oil drums	22 pcs	Plant yard designated area	"Sanitary" LTD
9	Used food oil	15 liters	Camp separate wastebaskets	"Sanitary" LTD
10	Bulbs, cartridges	1 pc	Camp separate wastebaskets	"Sanitary" LTD
11	Medical waste	0.1 m ³	Camp separate wastebaskets	"Sanitary" LTD

67. Large amount of waste is accumulated mainly in the vicinity of construction sites, specifically: soil and rock material removed from tunnels. Part of the material is used for temporary service roads and excess material is disposed to an approved dumpsite. Some material has also been temporarily stored under bridges until it can be used or is removed to the approved dumpsite. Please see **Annex 2** for the construction site clean up and rehabilitation plan/schedule.

68. The dumpsite area which is located near Batumi Airport and Kakhaberi settlement was approved by the Ministry of Finance and Economy of Adjara on 19.11.2018 and a copy of the agreement was submitted to the Engineer.

4.5 Health and Safety

69. The Contractor has designated Mr. Ayaz Abdurahmanov as a full-time Accident Prevention Officer for the Project. In this capacity, he assumes responsibility for ensuring safety and accident prevention measures are consistently maintained. Mr. Abdurahmanov is present on-site every day, actively contributing to the ongoing safety efforts and protocols. The Contractor also appointed Mr. Davit Metreveli and Mr. Levan Saginadze as HSE specialists to support the Accident Prevention Officer. Mr. Davit Metreveli and Mr. Levan Saginadze hold labour safety certificates recognized in Georgia. Both specialists have at least three years of experience in the construction sector. They possess good knowledge of labour safety

regulations, as well as skills in reporting and documentation. The specialists are detail-oriented, have analytical thinking, and strong teamwork skills.

70. During the reporting period, multiple emergency response drills were conducted to assess the preparedness and effectiveness of existing emergency procedures. These drills were specifically designed to simulate scenarios with potential environmental impact, ensuring that the organization is equipped to respond promptly and effectively to such incidents. A facility-wide fire drill was conducted, simulating a fire outbreak in an area with flammable waste storage. The drill assessed the effectiveness of evacuation protocols, firefighting equipment access, and environmental protection measures such as secondary containment systems. Post-drill evaluations highlighted the effectiveness of rapid containment but also noted the need for updated signage and clearer roles in the environmental response team.

4.5.1 Community and Worker Health and Safety

71. On December 23, 2024, an incident occurred involving a contractor's employee at the Construction Camp Site. The employee was engaged in routine operations at a machine when his finger became caught between moving components of the equipment. The incident resulted in an injury to the finger phalanx. Immediate first aid was provided on-site before the injured employee was transferred to the BAU International Hospital for medical examination and treatment. The clinic subsequently confirmed the extent of the injury and administered appropriate care. The area was secured, and the equipment involved was locked out following the incident. Descriptions of the incidents and accidents that occurred during the reporting period are provided in **Table 18**.

Table 18 Incidents and Accidents Log

N	DATE	DESCRIPTION	MEASURES TAKEN	FOLLOW UP
1	23.12.2024	An incident occurred at Construction Camp Site, in particular: A Contractor's employee was performing his assigned duties when the incident took place. He was operating at a machine-tool, when his finger got caught between the working parts, resulting in an injury to his finger phalanx. The employee was transferred to the "Bau" International Hospital for examination and treatment.	- A full incident investigation is underway to determine root causes and contributing factors. - Preventive measures, including enhanced training and mechanical safeguards, will be implemented to prevent recurrence. Status: Final report and corrective actions will be shared as the contractor continues work and a final investigation report will be published upon completion of the investigation.	

72. As part of the organizational review of incident investigations, attention has been given to the post-incident employment status of involved workers. During the reporting period, it was noted that several workers who were directly involved in workplace incidents were no longer employed by the time investigations were completed. In multiple cases, the separation was recorded as "terminated upon their request." This pattern has prompted internal scrutiny, as early departures—particularly when they occur before the completion of an investigation—can affect the thoroughness and credibility of incident analysis and may give rise to concerns about potential

informal pressure to resign. To ensure transparency and uphold investigative integrity, the following steps are now in place: All incident reports now include post-incident employment status of involved individuals, including whether they remained employed through the investigation's conclusion. Any resignation or termination during an active investigation is subject to review by both Human Resources and the HSE Department to confirm the decision is voluntary and not influenced by undue pressure. Workers are informed of their right to remain employed during investigations, and participation in investigations is formally protected from reprisal under internal safety policies. Resignation trends are being monitored to identify patterns that may signal cultural or managerial issues requiring corrective action. These measures are designed to support a fair and transparent workplace culture in which incidents can be reported, investigated, and learned from—without fear of retaliation or employment consequences. Trends related to the incidents and accidents are outlined in **Table 19**

Table 19 Health and Safety Trends

Incident	Reporting Period (July – December 2024)	Total (since start of Project)
Near Miss	0	7
Accident Minor	1	21
Accident Major	0	5
Incident Minor	0	11
Incident Major	0	8

All incidents are classified in accordance with the organization's Incident Severity Classification Framework, which aligns with recognized industry standards and internal HSE policy. Incidents are assessed based on several factors, including:

- Nature and extent of injury or illness
- Need for medical treatment beyond first aid
- Duration of lost work time or restricted duties
- Potential for escalation under slightly different circumstances
- Actual or potential environmental or asset damage

The classification tiers typically include:

- Minor – Injuries requiring basic first aid or outpatient care, with no lost time and no permanent impairment.
- Moderate – Injuries requiring medical treatment, potentially involving restricted work duties or short-term lost time (typically less than 7 days), but no lasting disability.
- Serious – Injuries resulting in extended lost time, hospitalization, or permanent impairment.
- Major – Fatalities, life-altering injuries, or incidents with severe environmental or asset consequences.

Incident in Question: Finger Injury

In the case of the contractor's employee who sustained an injury to his finger phalanx while operating a machine-tool, the incident was initially classified as a 'Minor' injury based on the following criteria:

- The injury involved a single finger phalanx, with no fracture or amputation reported by the attending physician.
- Medical treatment was limited to outpatient care at BAU International Hospital, with no hospitalization or surgical intervention.

- The worker was expected to return to normal duties within a short timeframe, with no indication of permanent disability at the time of reporting.
- There were no systemic failures or major equipment hazards identified in the preliminary review that could have led to a more serious outcome under normal operating conditions.

4.6 Contractor's Training

73. In accordance with the SSEMP, quarterly training for AIDS and Hepatitis for employees was held on 10 September 2024 and on 26 November 2024. Evaluation of HSE Training Effectiveness and Post-Incident Improvements: As part of the ongoing commitment to continuous improvement in health, safety, and environmental (HSE) performance, a review was conducted to evaluate the effectiveness of the existing HSE training program in light of recent incidents. Recent incident investigations, including the finger injury at the Construction Camp Site incidents during the reporting period, have prompted a detailed analysis of whether current training protocols adequately prepared personnel to identify, avoid, or respond to potential hazards. Key findings include inconsistent training records: Audits showed incomplete or outdated training records for a subset of contractor personnel, making it difficult to verify whether all required modules had been completed before high-risk tasks were assigned. While the foundational elements of the HSE training program were in place, recent incident have highlighted critical gaps in task-specific competency, hazard recognition, and supervisor involvement. These gaps have contributed to incident causation in several cases. The corrective measures implemented are designed to close these gaps and ensure that training is practical, verifiable, and directly linked to operational risk.
74. HSE training carried out during the reporting period included the following: Introductory instructions; Targeted use of personal protective equipment; sequential instruction; General rules of labor safety behavior at construction sites; Labor safety training / instruction, condition recognition and inventory supply act.

4.7 Community Consultation

75. Public consultation and participation are an integral part of ADB's policy which is a continuous process at conception, preparation, implementation and finally at post implementation period.
76. As the Project is in the implementation phase, the Engineer frequently conducts consultations and meetings with the APs to determine and resolve issues. As of 31 December 2024, the Engineer conducted 12 consultations with the APs by the Project. The consultations were held mostly one-on-one between the residents and the representative of the Engineer and the Contractor. During the meetings were inspected the issues raised by the residents. The issues concerned the damage to the residential house and road upgrading. In most cases fruitful consultations have been conducted between the parties. Moreover, the meetings included post-construction consultations with the citizens living on the top of the Tunnels. The updated data regarding the mentioned is periodically submitted to the Employer for the further actions' determination.

4.8 Grievance Redress Mechanism and Complaints

77. A total of 234 people has submitted grievances across 11 categories to the GRC. Out of these, 196 grievances have been resolved as of 31 December 2024. Most people (102) applied for damage to their assets caused by construction activities, out of which 73 have been closed. 42 APs requested inclusion of their residential structures or land plots in the acquisition list, all of them are already closed. 28 APs expressed dissatisfaction due to disturbance from noise/vibration and dust, out of which 19 cases have been closed.

78. After the completion of the NATM works at the Tunnels, the post construction surveys for Tunnels No. 4 and No. 3 have been submitted by the Contractor. The preparation of post construction surveys for Tunnels No. 2 and No. 1 is on-going. The submitted data is under review by the Engineer. Overall, the GRM system works successfully, especially with post construction surveys. On the first level it includes the Engineer's review, later in case of damage determination, the invitation of independent forensics bureau to finalize the conclusion. Therefore, the system performance is acceptable due the reporting period. For other details refer to **Table 20** below.

Table 20 Summary of Grievances by Category

Number of Complaints by Category	Closed	Technical Hold	Open	Total
Damage to Infrastructure / Assets	73	27	2	102
Crop Compensation	7	0	0	7
Other	16	0	0	16
Inclusion in LARP	42	0	0	42
Disturbance: Noise / Vibration / Dust	19	7	0	26
Restriction or loss of access	12	0	0	12
Recruitment / Employment	1	0	0	1
Loss of business	1	0	0	1
Compensation Rate	16	1	0	17
Registration / Ownership Status	7	0	0	7
HSE Concerns	0	0	0	0
Road Upgrading	2	0	0	3
Total	196	35	2	234

5 FUNCTIONING OF THE SSEMP

5.1 SSEMP Review

79. The original SSEMP was prepared by the Contractor and submitted to the Engineer on 30 May 2018 by letter GEO/BB/103-18 and was prepared in a good manner although with some inconsistencies. In March 2019 the Contractor submitted an updated SSEMP to the Engineer which considered ADB, RD and Engineer's comments. It included all aspects of Project construction and construction sites, namely:

- Soil Management Plan
- Water Management Plan
- Dust Management Plan
- Noise & Vibration Management Plan
- Waste Management Plan
- Spoil Management Plan
- Spill Prevention Management Plan
- Borrow Pit Management Plan
- Flora and Fauna Management Plan
- Cultural and Archaeological Management Plan
- Grievance Redress Mechanism.

80. As per Engineer's request (Letter Ref. 5015001/2/1138 dated 15 November 2019), the Contractor updated the SSEMP on 18.04.2021 and additionally prepared EMPs for the Stone Column area, No.2 Concrete Batching Plant and for each tunnel and bridge. Since 2021, the SSEMP has not been updated and has played a limited role in Environmental Management. Many of the mitigation measures declared in the SSEMP to address Environmental Issues were not properly implemented. Specifically:

- Bio-toilets were required to be installed at all Construction Sites, but this was not carried out.
- During construction, unpaved roads were not regularly watered.
- Despite the instructions outlined in the EIA (Article 647), the SSEMP did not define specific thresholds or assess the individual impact of separate facilities on the Environment.
- The impact of construction on the visual and aesthetic aspects of the area was not addressed.

According to the "Program of Remaining Works" submitted by the Contractor in December, the completion date for waste management by the Contractor is 01 April 2025. As for the subsequent period, the responsibility for road cleaning will be transferred to a company hired by the Employer (RD), which will carry out post-opening maintenance activities.

5.2 Environmental Offences and Penalties

Adjara and Guria Regional Division, Department of Environmental Supervision, Ministry of Environmental Protection and Agriculture of Georgia did not issue any environmental offences and penalties to the Contractor during the reporting period.

6 GOOD PRACTICE

6.1 Good Practice

81. The dismantling of Concrete Batching Plant No. 2 and cleanup of the area has been completed, while the plant modules have been temporarily placed in the Construction Camp; On 11 October 2024, the Batumi Bypass Road was officially opened for traffic; The Waste from the Project placed along the roadside has been partially removed to Spoil Disposal Site; The Contractor submitted the result of soil testing conducted on the soil placed under Bridge No. 5, which was removed from the Batumi Oil Terminal. During the reporting period, the spoil material placed under bridges was in the process of being removed to the designated spoil disposal site or used in the territory leveling process, considering the topographical conditions of the area; The Contractor continuously implements the quarterly monitoring in accordance with the SSEMP. During the reporting period, the Contractor submitted an updated waste matrix spreadsheet to the Engineer, which showed the location of all sites requiring waste removal (including construction waste), along with the schedule for waste removal and site cleaning. All ENCRs from the previous reporting period are closed.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

82. Throughout the reporting period, the Contractor carried out the agreed-upon monitoring of air and water quality. The monitoring included measurements of air quality, specifically focusing on particulate matter (PM 2.5 – PM 10), as well as monitoring of water quality. This proactive approach reflects the contractor's commitment to environmental stewardship and compliance with established monitoring protocols.
83. During the reporting period, issues related to waste management at construction sites were improved, leading to a reduction in waste at construction sites. This approach demonstrates the Contractor's commitment to rectifying identified issues and maintaining compliance with established standards. The Contractor was instructed to enforce a penalty system (as outlined in the Contractor's SSEMP) for personnel to prevent the recurrence of construction sites being littered with waste and to reduce the practice of recurring non-conformances. However, no penalties were issued during the current reporting period. In the field of waste management, the Engineer acted in accordance with the Georgian Law on Environmental Protection, the Waste Management Code, and the requirements of ADB's Safeguard Policy requirements.
84. The Engineer's specialists paid significant attention to raising awareness among both the Engineer's and the Contractor's personnel regarding Environmental issues, particularly the importance of climate change and biodiversity protection. In the early stages of construction, negative impacts were observed on the Contractor's part, such as the open burning of domestic waste (including food waste, disposable plastic containers, etc.) on construction sites, which led to the release of greenhouse gases (CO₂) into the atmosphere. However, due to strict requirements imposed by the Engineer, such open burning of waste was no longer observed in the final stages of construction. There were also cases of inefficient use of cement, which indirectly contributed to climate change, since cement production is associated with high CO₂ emissions.
85. On a positive note, regular technical inspections of vehicles and equipment were conducted to reduce harmful emissions, and emphasis was placed on the use of high-quality fuel and lubricants. With regard to biodiversity, it is noteworthy that during Road Construction, no cases of poaching or other negative impacts on biodiversity were reported by Government Agencies.
86. Overall, the Batumi Bypass Road Project (BBRP) is incomplete. Specifically:
 - The construction area was not properly studied, leading to delays in road construction. For instance, explosive mines were found on the Gorodoki site.
 - Oil tankers and other items were discovered at Interchange No.4 area.
 - In order to ensure that the Contractor promptly follows the Engineer's instructions to address non-compliances, the signature of the Engineer's Environmental Specialist on the Cost Estimate (IPC) should be mandatory.

7.2 Recommendations

87. Enhance the overall level of environmental management at construction sites to ensure adherence to environmental standards and regulations.
88. Implement proactive measures to augment staff training programs, particularly focusing on increasing environmental awareness. Topics should encompass waste management, optimal use and re-use of materials, and biodiversity protection through site rehabilitation and tree planting initiatives.

89. Enforce strict prohibitions and disciplinary measures against employees engaging in open-air burning of waste and improper disposal of waste concrete.
90. After the completion of the construction of the bridges, it is recommended that the remaining beam bearings/concrete blocks which are no longer required by the Contractor, are given free of charge to the Adjara Sea and Riverbanks Protection Service for embankment stabilization works. Such an action will enhance the image of the Contractor's company as an environmentally friendly entity.
91. Develop and submit a noise barrier design/plan, along with costings, and implement noise protection measures to mitigate the impact of noise during Project operation..
92. Implementation of the agreed plan for planting compensatory trees. The Contractor must carry out the planting of compensatory trees during the next planting period in March-April 2025.
93. The Engineer is yet to receive the technical and financial proposals for review regarding landscaping of steep slopes and Tunnel portals. This needs to be done as soon as possible as the work is scheduled to be undertaken in March-April 2025.
94. The Engineer is yet to receive from the Contractor the design documentation regarding collecting (sump) tank for each tunnel. The requirement for construction of a collecting tank for each tunnel is included in the BoQ for the Project, however, it is currently not included in the Contractor's Program of Remaining Works.

ANNEX 1 PROJECT PHOTOS

Photo No. 1 - The BBRP Opening Ceremony



Photo No. 2 - The BBRP Opening Ceremony



Photo No. 3 - The BBRP Opening Ceremony



Photo No. 4 - Asphalt works completion on the road



Photo No. 5 - Road open to traffic



Photo No. 6 - Road open to traffic



ANNEX 2 SITES CLEAN-UP AND REHABILITATION TIMESHEET

No	Location (Km+)	Issue Description	Action Required	Responsibility	Timeframe	Action Taken(Yes/No)	Comments
1	Underneath Bridge No. 5 and surrounding area at km 4+219 – 4+789	Stored spoil material 1000 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
2	Adjacent to Interchange No. 2 and Batching Plant No. 2 area	Stored spoil material 300 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
		Material removed from the sedimentation basin and concrete waste stored in the area	Removal and placement of the removed material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
		Batching plant	Demolition, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
3	Underneath Bridge No. 8 and surrounding area at km 6+925 – 7+129	Stored spoil material 75 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done

4	Intechange No.3	Stored spoil material 1020 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
5	Underneath Bridge No. 9 and surrounding area at km 7+405 – 7+532	Stored spoil material 15 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
6	Underneath Bridge No. 10 and surrounding area at km 8+725 – 9+225	Stored spoil material 250 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
7	Underneath Bridge No. 10 and surrounding area at km 10+357 – 11+417	Stored spoil material 800 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
8	Underneath Bridge 12 and surrounding area at km 11+600 – 11+759	Stored spoil material 400 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
9	Underneath Bridge 13 and surrounding area at km 11+840 – 11+967	Stored spoil material 200 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done

10	Adjacent to Interchange No. 4	Stored spoil material 1700 m ³	Removal spoil material to the designated storage area, cleaning the area, and restoring it to its original state	Contractor	December 2025	Yes	Done
11	Contractor's Office and Residential Campsite area	Demolition, cleaning the area office and residential facilities	Demolition, cleaning the area, and restoring it to its original state	Contractor	July 2025	No	Depends on the completion of the project.
12	Laboratory area	Facilities located in the area	Demolition, cleaning the area, and restoring it to its original state	Contractor	July 2025	No	Depends on the completion of the project.
13	Contractor's construction campsite and Batching plant No. 1 area	Tires used in construction activities	Handing over to the relevant company, and cleaning the area	Contractor	July 2025	No	Work in progress
		Scrap accumulated during construction activities	Handing over to the relevant company, and cleaning the area	Contractor	July 2025	No	Work in progress
		Hazardous waste accumulated during construction activities	Handing over to the relevant company, and cleaning the area	Contractor	July 2025	No	Work in progress

ANNEX 3 RESULTS OF AIR QUALITY (PM 2.5 AND PM 10) MEASUREMENTS

The measurements were made on 14/09/2024.

N1 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
1	14 Sep 2024 17:35	8	3
2	14 Sep 2024 17:36	8	6
3	14 Sep 2024 17:37	9	5
4	14 Sep 2024 17:38	5	7
5	14 Sep 2024 17:39	11	9
6	14 Sep 2024 17:40	11	4
7	14 Sep 2024 17:41	9	4
8	14 Sep 2024 17:42	11	4
9	14 Sep 2024 17:43	9	6
10	14 Sep 2024 17:44	8	9
11	14 Sep 2024 17:45	10	8
12	14 Sep 2024 17:46	6	5
13	14 Sep 2024 17:47	8	3
14	14 Sep 2024 17:48	11	7
15	14 Sep 2024 17:49	12	4
16	14 Sep 2024 17:50	10	6
17	14 Sep 2024 17:51	5	6
18	14 Sep 2024 17:52	6	5
19	14 Sep 2024 17:53	7	4
20	14 Sep 2024 17:54	6	5
20 min. Average		9	6

N2 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
21	14 Sep 2024 16:09	14	5
22	14 Sep 2024 16:10	11	5
23	14 Sep 2024 16:11	13	3
24	14 Sep 2024 16:12	11	5
25	14 Sep 2024 16:13	11	6
26	14 Sep 2024 16:14	9	9
27	14 Sep 2024 16:15	7	5
28	14 Sep 2024 16:16	6	3
29	14 Sep 2024 16:17	12	9
30	14 Sep 2024 16:18	6	7
31	14 Sep 2024 16:19	6	3
32	14 Sep 2024 16:20	8	7
33	14 Sep 2024 16:21	6	4
34	14 Sep 2024 16:22	13	8
35	14 Sep 2024 16:23	15	4
36	14 Sep 2024 16:24	14	5
37	14 Sep 2024 16:25	9	9

N3 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
41	14 Sep 2024 15:27	18	9
42	14 Sep 2024 15:28	23	8
43	14 Sep 2024 15:29	29	7
44	14 Sep 2024 15:30	23	6
45	14 Sep 2024 15:31	19	8
46	14 Sep 2024 15:32	20	10
47	14 Sep 2024 15:33	30	7
48	14 Sep 2024 15:34	13	12
49	14 Sep 2024 15:35	29	15
50	14 Sep 2024 15:36	27	11
51	14 Sep 2024 15:37	11	12
52	14 Sep 2024 15:38	16	10
53	14 Sep 2024 15:39	24	6
54	14 Sep 2024 15:40	22	13
55	14 Sep 2024 15:41	25	15
56	14 Sep 2024 15:42	24	9
57	14 Sep 2024 15:43	28	9
58	14 Sep 2024 15:44	19	10
59	14 Sep 2024 15:45	26	11
60	14 Sep 2024 15:46	28	7
20 min. Average		23	10

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
61	14 Sep 2024 14:44	18	11
62	14 Sep 2024 14:45	14	6
63	14 Sep 2024 14:46	17	5
64	14 Sep 2024 14:47	13	6
65	14 Sep 2024 14:48	21	5
66	14 Sep 2024 14:49	15	10
67	14 Sep 2024 14:50	18	8
68	14 Sep 2024 14:51	16	9
69	14 Sep 2024 14:52	22	6
70	14 Sep 2024 14:53	20	8
71	14 Sep 2024 14:54	19	9

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
72	14 Sep 2024 14:55	17	5
73	14 Sep 2024 14:56	19	5
74	14 Sep 2024 14:57	21	6
75	14 Sep 2024 14:58	75	25
76	14 Sep 2024 14:59	18	8
77	14 Sep 2024 15:00	13	10
78	14 Sep 2024 15:01	20	8
79	14 Sep 2024 15:02	18	10
80	14 Sep 2024 15:03	21	11
20 min. Average		21	9

N5 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
81	14 Sep 2024 14:05	11	9
82	14 Sep 2024 14:06	15	9
83	14 Sep 2024 14:07	10	10
84	14 Sep 2024 14:08	11	11
85	14 Sep 2024 14:09	8	8
86	14 Sep 2024 14:10	6	9
87	14 Sep 2024 14:11	9	3
88	14 Sep 2024 14:12	11	5
89	14 Sep 2024 14:13	15	6
90	14 Sep 2024 14:14	18	7
91	14 Sep 2024 14:15	20	5
92	14 Sep 2024 14:16	15	8
93	14 Sep 2024 14:17	16	11
94	14 Sep 2024 14:18	14	9
95	14 Sep 2024 14:19	13	6
96	14 Sep 2024 14:20	13	5
97	14 Sep 2024 14:21	15	9
98	14 Sep 2024 14:22	18	6
99	14 Sep 2024 14:23	19	8
100	14 Sep 2024 14:24	11	8
20 min. Average		13	8

Measurements made on 08/11/2024.

N1 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
1	08 Nov 2024 15:39	79	72
2	08 Nov 2024 15:40	9	5
3	08 Nov 2024 15:41	4	3
4	08 Nov 2024 15:42	5	3
5	08 Nov 2024 15:43	10	4
6	08 Nov 2024 15:44	8	4
7	08 Nov 2024 15:45	4	4
8	08 Nov 2024 15:46	7	4
9	08 Nov 2024 15:47	5	3
10	08 Nov 2024 15:48	6	3
11	08 Nov 2024 15:49	5	3
12	08 Nov 2024 15:50	4	3
13	08 Nov 2024 15:51	5	3
14	08 Nov 2024 15:52	3	3
15	08 Nov 2024 15:53	8	4
16	08 Nov 2024 15:54	4	3
17	08 Nov 2024 15:55	7	3
18	08 Nov 2024 15:56	6	3
19	08 Nov 2024 15:57	11	4
20	08 Nov 2024 15:58	5	4
20 min. Average		10	7

N2 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
21	08 Nov 2024 15:09	5	4
22	08 Nov 2024 15:10	5	3
23	08 Nov 2024 15:11	1	1
24	08 Nov 2024 15:12	73	25
25	08 Nov 2024 15:13	90	52
26	08 Nov 2024 15:14	8	2
27	08 Nov 2024 15:15	4	1
28	08 Nov 2024 15:16	5	2
29	08 Nov 2024 15:17	4	2
30	08 Nov 2024 15:18	4	2
31	08 Nov 2024 15:19	3	1
32	08 Nov 2024 15:20	1	1
33	08 Nov 2024 15:21	3	1
34	08 Nov 2024 15:22	5	2
35	08 Nov 2024 15:23	3	1
36	08 Nov 2024 15:24	2	1
37	08 Nov 2024 15:25	2	2

N2 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
38	08 Nov 2024 15:26	4	2
39	08 Nov 2024 15:27	3	2
40	08 Nov 2024 15:28	3	1
20 min. Average		11	5

N3 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
41	08 Nov 2024 14:44	226	70
42	08 Nov 2024 14:45	25	4
43	08 Nov 2024 14:46	8	2
44	08 Nov 2024 14:47	8	2
45	08 Nov 2024 14:48	6	2
46	08 Nov 2024 14:49	12	3
47	08 Nov 2024 14:50	25	5
48	08 Nov 2024 14:51	10	2
49	08 Nov 2024 14:52	10	3
50	08 Nov 2024 14:53	13	4
51	08 Nov 2024 14:54	8	3
52	08 Nov 2024 14:55	10	3
53	08 Nov 2024 14:56	19	4
54	08 Nov 2024 14:57	16	2
55	08 Nov 2024 14:58	18	3
56	08 Nov 2024 14:59	11	2
57	08 Nov 2024 15:00	39	8
58	08 Nov 2024 15:01	16	4
59	08 Nov 2024 15:02	8	3
60	08 Nov 2024 15:03	4	1
20 min. Average		25	7

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
61	08 Nov 2024 14:18	13	7
62	08 Nov 2024 14:19	9	6
63	08 Nov 2024 14:20	3	1
64	08 Nov 2024 14:21	87	35
65	08 Nov 2024 14:22	3	1
66	08 Nov 2024 14:23	15	3
67	08 Nov 2024 14:24	1	1
68	08 Nov 2024 14:25	6	3
69	08 Nov 2024 14:26	4	2
70	08 Nov 2024 14:27	2	1
71	08 Nov 2024 14:28	2	1

N4 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
72	08 Nov 2024 14:29	2	1
73	08 Nov 2024 14:30	5	2
74	08 Nov 2024 14:31	5	2
75	08 Nov 2024 14:32	5	2
76	08 Nov 2024 14:33	4	1
77	08 Nov 2024 14:34	3	1
78	08 Nov 2024 14:35	4	1
79	08 Nov 2024 14:36	6	1
80	08 Nov 2024 14:37	3	2
20 min. Average		9	4

N5 Point			
Index	Date Time	PM10 (µg/m3)	PM2.5 (µg/m3)
81	08 Nov 2024 13:56	4	2
82	08 Nov 2024 13:57	3	2
83	08 Nov 2024 13:58	11	3
84	08 Nov 2024 13:59	4	2
85	08 Nov 2024 14:00	6	2
86	08 Nov 2024 14:01	5	2
87	08 Nov 2024 14:02	8	4
88	08 Nov 2024 14:03	4	3
89	08 Nov 2024 14:04	3	2
90	08 Nov 2024 14:05	6	2
91	08 Nov 2024 14:06	3	1
92	08 Nov 2024 14:07	2	2
93	08 Nov 2024 14:08	4	2
94	08 Nov 2024 14:09	2	2
95	08 Nov 2024 14:10	3	2
96	08 Nov 2024 14:11	9	4
97	08 Nov 2024 14:12	4	2
98	08 Nov 2024 14:13	3	2
99	08 Nov 2024 14:14	3	3
100	08 Nov 2024 14:15	2	1
20 min. Average		4	2

ANNEX 4 RESULTS OF ATMOSPHERIC AIR MEASUREMENTS

GEORGIA
AUTONOMOUS REPUBLIC OF ABKHAZIA
MINISTRY OF AGRICULTURE
LEPL "LABORATORY RESEARCH CENTRE"
40, SVETITSKY ST.
BATUMI, GEORGIA
TEL.: +995 (0) 92 25 12 86
Mail: lab@lab.ge

The testing Laboratory of the LEPL Laboratory Research Centre is accredited by the SAH for compliance with the ISO/IEC 17025:2017 standard, accreditation certificate No. SAH/17-0083.

The Protocol of the Test: 16/25/24

Date: 15/09/2024

Name of the customer and contact information: Branch of Georgia Air Support, 300 Polar Yel' Yagel' Street, Yel' Yagel' in Georgia.

Description of the sample, conditions: Atmospheric air.

The place of sampling: Abkh. Batumi, Svetitsky St. No. 40. 15/09/2024 14:15

Method of sampling and/or preparation: The sample is taken according to the requirements of LEPL - Laboratory Research Centre, which is responsible for sampling and transportation.

Date of sample entry into the laboratory: 15/09/2024 15:00

Place and date of performance of laboratory activities: Batumi, 40, Svetitsky St. LEPL Laboratory Research Centre, Batumi. Wednesday 15/09/2024 15:30-17:00.

GEORGIA
AUTONOMOUS REPUBLIC OF ABKHAZIA
MINISTRY OF AGRICULTURE
LEPL "LABORATORY RESEARCH CENTRE"
40, SVETITSKY ST.
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TEL.: +995 (0) 92 25 12 86
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The Protocol of the Test: 16/25/24

Date: 15/09/2024

Name of the customer and contact information: Branch of Georgia Air Support, 300 Polar Yel' Yagel' Street, Yel' Yagel' in Georgia.

Description of the sample, conditions: Atmospheric air.

The place of sampling: Abkh. Batumi, Svetitsky St. No. 40. 15/09/2024 14:15

Method of sampling and/or preparation: The sample is taken according to the requirements of LEPL - Laboratory Research Centre, which is responsible for sampling and transportation.

Date of sample entry into the laboratory: 15/09/2024 15:00

Place and date of performance of laboratory activities: Batumi, 40, Svetitsky St. LEPL Laboratory Research Centre, Batumi. Wednesday 15/09/2024 15:30-17:00.

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LEPL "LABORATORY RESEARCH CENTRE"
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The Protocol of the Test: 16/25/24

Date: 15/09/2024

Name of the customer and contact information: Branch of Georgia Air Support, 300 Polar Yel' Yagel' Street, Yel' Yagel' in Georgia.

Description of the sample, conditions: Atmospheric air.

The place of sampling: Abkh. Batumi, Svetitsky St. No. 40. 15/09/2024 14:15

Method of sampling and/or preparation: The sample is taken according to the requirements of LEPL - Laboratory Research Centre, which is responsible for sampling and transportation.

Date of sample entry into the laboratory: 15/09/2024 15:00

Place and date of performance of laboratory activities: Batumi, 40, Svetitsky St. LEPL Laboratory Research Centre, Batumi. Wednesday 15/09/2024 15:30-17:00.

Sample No. (Identification)	Research parameter	Measurement result	Test Method
Registration No. 2527	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods

Generalized parameters:

Head of the Laboratory:

The full official name and date of the test is: 15/09/2024 15:30-17:00

Research Center

Sample No. (Identification)	Research parameter	Measurement result	Test Method
Registration No. 2527	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods

Generalized parameters:

Head of the Laboratory:

The full official name and date of the test is: 15/09/2024 15:30-17:00

Research Center

Sample No. (Identification)	Research parameter	Measurement result	Test Method
Registration No. 2527	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods
Am	Hydrogen chloride (HCl)	Not detected	Technical Regulation No. 435 on analytical methods

Generalized parameters:

Head of the Laboratory:

The full official name and date of the test is: 15/09/2024 15:30-17:00

Research Center

	GEORGIA AUTONOMOUS REPUBLIC OF ABKHAZIA MINISTRY OF AGRICULTURE LAB. "LABORATORY RESEARCH CENTER" 6A TATISHVILI ST. BATUMI-4910 TEL.: +995 59 125 25 01 00 lab@abkhazagro.gov.ge		
The testing laboratory of the SC Laboratory Research Center accredited by the SAC for compliance with the ISO/IEC 17025:2017 standard, accreditation certificate No. GAC/TL-4968. The Form of the Test - MSLS			
Name of the customer and contact information: Branch of Batumi branch „SC Folia Svitlitskaya Vn Trovsk“ in Georgia			Date: 15.09.2024
Description of the sample, condition: Ascorbic acid			
The place of sampling, date: Batumi, September 1, 2023		12.09.2024 15:05	
Method of sampling and/or preparation: The sample taken according to a specification of IUPAC – Laboratory Research Center, who is responsible for sampling and measurement.			
Date of sample entry in the laboratory: 12.09.2024 12:00			
Listed and Date of performance of laboratory activities: Batumi, 14.09.2024 SC Lab Laboratory Research Center, Batumi, July 2024 390 8206 2024-12-25-2025			
Sample № (Identification)	Requested parameter	Measurement result	You do first
Registration № 2523 Act 2600	Ascorbic acid (%)	COD	Technical Regulation No. 435 main features instructions
	Hydrogen sulfide (%)	Not detected	Technical Regulation No. 435 main features instructions
	Sulfur dioxide (%)	Not detected	Technical Regulation No. 435 main features instructions
	Oxygen (%)	Not detected	Technical Regulation No. 435 main features instructions
	Dust	COD	Technical Regulation No. 435 main features instructions
	Potassium permanganate (KMnO ₄) (%)	Not detected	Technical Regulation No. 435 main features instructions
Responsible person:		S. Gurtsidze	
Head of the laboratory:			
This report prepared, issued and distributed in electronic form. It is valid only if it has the permission of the Laboratory Administration.			

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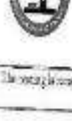
ANNEX 5 RESULTS OF NOISE MONITORING

	GEORGIA AUTONOMOUS REPUBLIC OF ADJARA MINISTRY OF AGRICULTURE, LEPL "LABORATORY RESEARCH CENTRE". 80, SWISHEVSKY ST. BATUMI, 6010. TEL: + 995 (04 22) 25 13 68 Mail: smchelab@gmail.com			
The testing laboratory of the SSI Laboratory Research Center is accredited by the SAK for compliance with the ISO/IEC 17025:2017/2018 standard, accreditation certificate No. GAC-TL-0308				
The Protocol of the Test N°2524				
Date: 13.09.2024				
Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapi Sanayi Ve Ticaret” in Georgia.				
Determination of the research (measurement) object: Noise level				
Place of measurement (performance of laboratory activities), date: Batumi, Opizreb Street No. 97				
Sample No. (identification)	Place of measurement	Identification of the parameter to be measured, feature	Measurement result (maximum sound level LA max. dB A)	Test method
Registration No. 2524, Act No. 499	The territory of the school of Makhvilauri 12.09.2024 14:15	non-constant, fluctuating in time, intermittent noise	43,0 dB	GOST 23337-14
	Gorodok near the population 12.09.2024 16:10	non-constant, fluctuating in time, intermittent noise	40,9 dB	GOST 23337-14
	Benze settlement 12.09.2024 14:50	non-constant, fluctuating in time, intermittent noise	45,5 dB	GOST 23337-14
	Makhinjauri settlement 12.09.2024 15:15	non-constant, fluctuating in time, intermittent noise	44,0 dB	GOST 23337-14
	Makhinjauri settlement 12.09.2024 15:35	non-constant, fluctuating in time, intermittent noise	42,3 dB	GOST 23337-14
Responsible performer: S. Gierkholidze Head of the laboratory: The full or partial reproduction and distribution of this protocol of the test is inadmissible without the permission of LEPL Laboratory Research Center.				
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ANNEX 6 WATER QUALITY MONITORING RESULTS

Water quality samples were collected on 12/09/2024

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GEORGIA
AUTONOMOUS REPUBLIC OF ADIGRA
MINISTRY OF AGRICULTURE
LEPP LABORATORY RESEARCH CENTER
62, SWANLOVEY ST
BATUMI 020
TEL. +995 922 28 13 08
Web: gepp.lepp.gov.ge




The Laboratory of the LEPP Laboratory Research Center is accredited by the State for compliance with the ISO/IEC 17025:2017/2018 standard, accreditation certificate No. GAC/21-0308

The Protocol of the Test №12345

Date: 01.05.2024

Name of the customer and contact information: Branch of Foreign enterprises „SC Told for Foreign Trade“ in Georgia
 Place of sample collection: street 30, Ave. Eranisi (Mtskheta), settlement: km 0.550 River Malkhyani
 12.05.2024 15:00 (PM)

Service of taking and / or transporting the test sample: „SC“ No-reserve Sampling Procedure, Association of the Government of Georgia No. 26 January 5, 2014

Date of taking the combined test sample: 11.12.2024 17:00

Location and date of laboratory analysis: LEPP Laboratory Research Center
 Issue: 60.0 Substrate: 10.00 12.05.2024-16.05.2024

Sample № (Batch Number)	Research parameter	phosphorus (ppm)	Method (Instrument)
Replicate 10/21 Air	Chloride	25.6 mg/L	30-5287-006
	Sulfate	8.2 mg/L	0051-31340-1212
	Phosphorus	0.01 mg/L	0051-31340-1212
	Ammonia	0.11 mg/L + 0.0154 mg/L	0051-31340-1212
	Mercury	1.6 mg/L	0051-31340-1212
	Lead	0.002 mg/L	0051-31340-1212
	Cadmium	0.11 mg/L	0051-31340-1212

Results refer only to the sample(s) presented.

Responsible person:  K. Tsutsava
 Y. Tsutsava
 Designer

Link to the laboratory: 

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GEORGIA
 AUTONOMOUS REPUBLIC OF ABKHAZIA
 MINISTRY OF AGRICULTURE
 CENTRAL LABORATORY RESEARCH CENTER
 82, KASHITSKY ST.
 BATUMI, 60102
 TEL: +995 (917) 25 13 68
 Mail: lab@abg.gov.ge



The testing laboratory of the SSI Laboratory Research Center is accredited by the SAM for compliance with the ISO/IEC 17025:2017 standard, accreditation certificate No. SA-CO-17-030

The Protocol of the Lab. No. 9224 Date: 15.08.2024

Name of the customer and contact information: Branch of Foreign Enterprise „AG Polat“ (Polat Group) in Georgia
 Description of the samples, condition: River water 2, in Plastic Bottle
 Place of taking the examination sample(s): Abkhaz Autonomous Republic, Batumi, 7400 River Abkhazian
 12.08.2024 15:05-15:10
 Method of taking and/or transporting the test sample(s): "Wastewater Sampling Procedures", Resolution of the Government of Georgia No. 26, January 2, 2014
 Date of taking the examination sample(s): 12.08.2024 15:05
 Location and time of laboratory working: SSI Laboratory Research Center
 Batumi 60102, Georgia No. 82 12.08.2024-15:05-15:10

Sample No. (Identification)	Research parameters	Measurement result	Method of research
Regeneration No. 9224 Lot 95026	Chlorides	14.3 mg/l	994287-2026
	Sulfates	17.0 mg/l	6057 3184-2012
	Ammonium	< 0.01 mg/l	6057 3184-2014
	Nitrites	0.14 mg/l ± 0.0028 mg/l	6057 3184-2014
	Nitrates	0.82 mg/l ± 0.0164 mg/l	6057 3184-2012
	Total Hard	1.62 mg/l	6057 3184-2012
	pH	6.29 mg/l	6057 3184-2012

Results refer only to the sample(s) presented.

Responsible person(s):

 R. Torosidze
 L. Vashilava
 K. Tskhadadze

Head of the laboratory:

 R. Torosidze
 Head of general reproduction and distribution of the report protocol is not allowed without the permission of the SSI Laboratory Research Center
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 AUTONOMOUS REPUBLIC OF ABKHAZIA
 MINISTRY OF AGRICULTURE
 CENTRAL LABORATORY RESEARCH CENTER
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 TEL: +995 (917) 25 13 68
 Mail: lab@abg.gov.ge



The testing laboratory of the SSI Laboratory Research Center is accredited by the SAM for compliance with the ISO/IEC 17025:2017 standard, accreditation certificate No. SA-CO-17-030

The Protocol of the Lab. No. 9224 Date: 15.08.2024

Name of the customer and contact information: Branch of Foreign Enterprise „AG Polat“ (Polat Group) in Georgia
 Description of the samples, condition: River water 1, in Plastic Bottle
 Place of taking the examination sample(s): Abkhaz Autonomous Republic, Batumi, 7400 River Abkhazian
 12.08.2024 15:05-15:10
 Method of taking and/or transporting the test sample(s): "Wastewater Sampling Procedures", Resolution of the Government of Georgia No. 26, January 2, 2014
 Date of taking the examination sample(s): 12.08.2024 15:05
 Location and time of laboratory working: SSI Laboratory Research Center
 Batumi 60102, Georgia No. 82 12.08.2024-15:05-15:10

Sample No. (Identification)	Research parameters	Measurement result	Method of research
Regeneration No. 9224 Lot 95026	Chlorides	25.3 mg/l	994287-2026
	Sulfates	16.7 mg/l	6057 3184-2012
	Ammonium	< 0.01 mg/l	6057 3184-2014
	Nitrites	0.1 mg/l ± 0.0028 mg/l	6057 3184-2014
	Nitrates	0.8 mg/l ± 0.0164 mg/l	6057 3184-2012
	Total Hard	0.70 mg/l	6057 3184-2012
	pH	7.08 mg/l	6057 3184-2012

Results refer only to the sample(s) presented.

Responsible person(s):

 R. Torosidze
 L. Vashilava
 K. Tskhadadze

Head of the laboratory:

 R. Torosidze
 Head of general reproduction and distribution of the report protocol is not allowed without the permission of the SSI Laboratory Research Center
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ANNEX 7 ENCRRS

	Environmental Non-Conformance Report (ENCR)	
Part 1 – Non-Conformance Description:		
Reference Number:	ENCR_176	
Project Name:	Bantam Bypass Road Project	
Contractor Name:	POLATYO! & MAPA JOINT VENTURE	
Location:	Tunnel No. 1 Entrance Portal / No. 1 გვირგვინის შესასვლელი პორტალი	
Non-Conformance Details: The following was observed on the territory: ტერიტორიაზე დაფიქსირდა Construction waste placed on the ground and burning of waste on the construction site. მიწაზე განთავსებული საშენებლო ნარჩენები და საშენებლო მოედანზე ნარჩენების წვა. Proposed Corrective Measures: შემოადგენილი-მაკონტროლებელი ჭეშმარიტება: It's necessary: საჭირო და აუცილებელია: To clean of the territory from the placed/burned and burnt waste and to provide the regular trainings for staff concerning the proper disposal of all types of waste and the responsibility of working personnel to ensure that the proper waste disposal procedures are followed, as well as to ensure that the waste should not be burned on the construction site. ტერიტორიის დასუფთავება განთავსებული და დაშვარი ნარჩენებისაგან. პერსონალისთვის რეგულარული ინსტრუქტაჟის ჩატარება. რომელიც ხაზს გასვას ყველა სახის ნარჩენების სწორად განთავსებასა და საშენებლო ელანზე მომხმარებელ პერსონალის პასუხისმგებლობის ნარჩენების სწორად განთავსების პროცედურების დაცვის უზრუნველყოფაზე და ასევე იმის უზრუნველყოფაზე, რომ ნარჩენები არ უნდა იწვოდეს საშენებლო მოედანზე. Engineer's Representative: Davit Tevzadze Signature: 		
Part 2 – Corrective Actions (attach any supporting information)		
Area was cleaned from placed and burnt waste. Necessary training was conducted. ტერიტორია დასუფთავდა განთავსებული და დაშვარი ნარჩენებისგან. ჩატარდა აუცილებელი სწავლება ინსტრუქტაჟით. Agreed Close-out Date: Date: 16/06/2024		
Contractor's Representative: Jaba Michrasidze Signature: 		

	Environmental Non-Conformance Report (ENCR)	
Part 3 – Inspection (evidence to support corrective action implementation)		
Done.		
Engineer's Representative: Davit Tevzadze		Signature: 
Close Date:	05.08.2024	

	Environmental Non-Conformance Report (ENCR)	
ENCR_176		
		
Photo No. 1		

Polatyol	Environmental Non-Conformance Report (ENCR)	 SMEC Member of the Sustain Group
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Photo No. 2

Polatyo! &  Joint Venture



Photo 19C2

Polatyo & Joint Venture

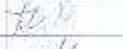
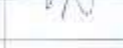
Unggah/rahasia Lampiran 7 Halaman tanggal 19.06.2017

1. <i>Il sistema di riferimento</i> 2. <i>Il sistema di riferimento</i>	3. <i>Il sistema di riferimento</i> 4. <i>Il sistema di riferimento</i>	5. <i>Il sistema di riferimento</i> 6. <i>Il sistema di riferimento</i>	7. <i>Il sistema di riferimento</i> 8. <i>Il sistema di riferimento</i>	9. <i>Il sistema di riferimento</i> 10. <i>Il sistema di riferimento</i>
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Respectful interaction / Courtesy Title
 If your first name is not on the name tag

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- [illegible]

Polatyo! &  Joint Venture			
List of Attendees/Signatories			
#	Attendee Name Sagor Name	Attendee Position Sagor Position	Attendee Signature Sagor Signature
1	Isaiah Isaya	Polatyo!	
2	Isaiah Isaya	Polatyo!	
3	Isaiah Isaya	Polatyo!	
4	Isaiah Isaya	Polatyo!	
5	Isaiah Isaya	Polatyo!	
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20			

Polatyo! &  Joint Venture		
List of Attendees/Signatories		
Attendee Name Sagor Name	Attendee Position Sagor Position	Attendee Signature Sagor Signature
Isaiah Isaya	Polatyo!	



 Polatyoi	Environmental Non-Conformance Report (ENCR)	 SMEC Member of the Sathana Group												
Part 1 – Non-Conformance Description														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Reference Number:</td> <td colspan="2">ENCR_177</td> </tr> <tr> <td>Project Name:</td> <td>Barama Bypass Road Project</td> <td>Date issued:</td> </tr> <tr> <td>Contractor Name:</td> <td colspan="2">POLATYOI & MAPA JOINT VENTURE</td> </tr> <tr> <td>Location:</td> <td colspan="2">Tunnel No. 3 Entrance Portal / No. 3 გვირგვინის შესასვლელი პორტალი</td> </tr> </table>			Reference Number:	ENCR_177		Project Name:	Barama Bypass Road Project	Date issued:	Contractor Name:	POLATYOI & MAPA JOINT VENTURE		Location:	Tunnel No. 3 Entrance Portal / No. 3 გვირგვინის შესასვლელი პორტალი	
Reference Number:	ENCR_177													
Project Name:	Barama Bypass Road Project	Date issued:												
Contractor Name:	POLATYOI & MAPA JOINT VENTURE													
Location:	Tunnel No. 3 Entrance Portal / No. 3 გვირგვინის შესასვლელი პორტალი													
Non-Conformance details: The following was observed: ტერიტორიაზე დაფარულია: Scattered construction waste and burning of the mentioned construction waste at the site. მოშრეპილი საშენებლო ნარჩენები და საშენებლო მოედანზე წარჩენის წეა. Proposed Corrective Measure: შემთავრებული-მაკორექტირებელი ღონისძიება: It's necessary: საჭირო და აუცილებელია: To clean the territory from the scattered and burnt waste and to conduct the regular training for staff concerning the proper disposal of construction and other waste at the construction site and the responsibility of site personnel to ensure proper waste disposal procedures are followed, as well as to remind that the construction waste should not be burned at the construction site. ტერიტორიის დასუფთავება მოშრეპილი და დაწვარი ნარჩენებისაგან. პერსონალისთვის ჩვეულებრივი ინსტრუქტაჟის ჩატარება, რომელიც სახს ეხება საშენებლო მოედანზე საშენებლო და სხვა სახის ნარჩენების სწორად განთავსებას და საშენებლო უბანზე მოხდეს პერსონალის ასახელების ნარჩენების სწორად განთავსების პროცედურების დაცვის უზრუნველყოფა და ასევე იმის ზედხედება, რომ ნარჩენები არ უნდა იწვებოდეს საშენებლო მოედანზე.														
Engineer's Representative: Davit Tevzadze		Signature: 												
Close Date: 05.08.2024														
Part 2 – Corrective Actions (attach any supporting information)														
Territory was cleaned from burnt and scattered waste. Necessary toolbox talk was conducted. ტერიტორია გაწმენდა მოშრეპილი და დაწვარი ნარჩენებისგან. ჩატარდა აუცილებელი სწავლება ინსტრუქტაჟი.														
Contractor's Representative: Isha Mathuramadas		Signature: 												
		Agreed Close-out Date: Date: 21/06/2024												

 Polatyoi	Environmental Non-Conformance Report (ENCR)	 SMEC Member of the Sathana Group
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Part 3 – Inspection (evidence to support corrective action implementation)

Done.

Engineer's Representative: Davit Tevzadze

Signature: 

Close Date: 05.08.2024

 Polatyoi	Environmental Non-Conformance Report (ENCR)	 SMEC Member of the Sathana Group
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ENCR_177



Photo No. 1



[illegible]

Polatyo! &  Joint Venture			
List of Attendees/სამსმენებელი			
N	სახელი/Name გვარი/Surname	თანამდებობა/Position	კომპანია/Company
1	პოლათო დავითი	პრეზიდენტი	Polatyo!
2	ბერიძე დავითი	პრეზიდენტი	Polatyo!
3	ალია ხატია	გენერალ-მენეჯერი	Polatyo!
4	მეგრელი ზორბეგ	პრეზიდენტი	Polatyo!
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Polatyo! &  Joint Venture

მისწველელი ჩაბარე		
სახელი/Name გვარი/Surname	თანამდებობა/Position	ხელმოწერა/Signature
ჭაჭაია ზორბეგ	გენერალ-მენეჯერი	

	 Environmental Non-Conformance Report (ENCR) 															
Part 1 – Non-Conformance Description: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Reference Number:</td> <td colspan="2">ENCR_171</td> </tr> <tr> <td>Project Name:</td> <td>Banasi Bypass Road Project</td> <td>Date issued: 18/06/2024</td> </tr> <tr> <td>Contractor Name:</td> <td colspan="2">POLATYOI & MAPA JOINT VENTURE</td> </tr> <tr> <td>Location:</td> <td colspan="2">Tunnel No. 5 Exit Portal / No. 5 ვეჯანის გამოსვლელი პორტალი</td> </tr> </table> Non-Conformance details: The following was observed: ტერიტორიაზე დაფიქსირდა: Scattered construction and household waste მოშენებული სამშენებლო და საყოფაცხოვრებო ნარჩენები. Proposed Corrective Measure: შემოიკრიბებიან-მაკონტროლებელი ქვეყნის: It's necessary: საჭირო და აუცილებელია: To clean the construction site from household and construction waste and to conduct the regular training for staff concerning the proper disposal of construction waste at the site and the responsibility of construction site personnel to ensure the compliance with proper waste disposal procedures. სამშენებლო მოედნის საყოფაცხოვრებო და სამშენებლო ნარჩენებისაგან გასუფთავება და პერსონალისთვის რეგულარული ინსტრუქტაჟის ჩატარება, რომელიც ხაზს გასვამს სამშენებლო მოედანზე ნარჩენების სწორად განთავსებასა და სამშენებლო უბანზე მომუშავე პერსონალის პასუხისმგებლობას ნარჩენების სწორად განთავსების პროცედურების დაცვის უზრუნველყოფაზე. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Engineer's Representative: Davit Tevzadze</td> <td style="width: 40%;">Signature: </td> </tr> </table>			Reference Number:	ENCR_171		Project Name:	Banasi Bypass Road Project	Date issued: 18/06/2024	Contractor Name:	POLATYOI & MAPA JOINT VENTURE		Location:	Tunnel No. 5 Exit Portal / No. 5 ვეჯანის გამოსვლელი პორტალი		Engineer's Representative: Davit Tevzadze	Signature: 
Reference Number:	ENCR_171															
Project Name:	Banasi Bypass Road Project	Date issued: 18/06/2024														
Contractor Name:	POLATYOI & MAPA JOINT VENTURE															
Location:	Tunnel No. 5 Exit Portal / No. 5 ვეჯანის გამოსვლელი პორტალი															
Engineer's Representative: Davit Tevzadze	Signature: 															
Part 2 – Corrective Action (attach any supporting information) Construction and household waste was removed from area. Necessary training was conducted. ტერიტორია დასუფთავდა საყოფაცხოვრებო და სამშენებლო ნარჩენებისაგან. ჩატარდა სწავლება-ინსტრუქტაჟი ატელალორ საკითხებზე. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Contractor's Representative: Jaba Mzhavanadze</td> <td style="width: 40%;">Signature: </td> </tr> </table>			Contractor's Representative: Jaba Mzhavanadze	Signature: 												
Contractor's Representative: Jaba Mzhavanadze	Signature: 															

Photo N01



Photo N02



Polatyo! Environmental Non-Conformance Report (ENCR)  Member of the Sustaina Group	Polatyo! Environmental Non-Conformance Report (ENCR)  Member of the Sustaina Group	Polatyo! Environmental Non-Conformance Report (ENCR)  Member of the Sustaina Group
ENCR_178  Photo No. 1	 Photo No. 2  Photo No. 3	 Photo No. 4

Polatyo! &  Joint Venture

Photo №1



Polatyo! &  Joint Venture

Photo №2



Polatyo! &  Joint Venture

Photo №3





Photo 104

Polalyoi & MSP Joint Venture

Erzeugnisse: 3-5 Bl. 8! 22,5/1,1 | aufgegeben: 10.06.2014

Total number of students enrolled	Number of students enrolled	✖	Number of students enrolled	✖	Number of students enrolled	✖
Number of students enrolled	Number of students enrolled	✖	Number of students enrolled	✖	Number of students enrolled	✖

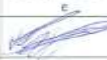
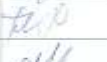
Example of Instruction / Content Title

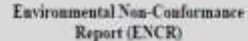
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Polatyo! & Joint Venture

List of Attendees: 10/16/2016

N	Isignvori/Name ფაჩი/Surname	თანამდებობა/Position	კომპანია/Company	ხელმოწერა/Signature
1	ლ. ჯ. ს. ლავაძე	პრეზიდენტი	Polatgol	
2	მ. ჯ. ს. ლავაძე	პრეზიდენტი	Polatgol	
3	დ. ჯ. ს. ლავაძე	პრეზიდენტი	Polatgol	
4	ა. ჯ. ს. ლავაძე	პრეზიდენტი	Polatgol	
5	ს. ჯ. ს. ლავაძე	პრეზიდენტი	Polatgol	
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მსწერი/საქმის მფლობელი: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">სახელი/Name</th> <th style="width: 33%;">უკრძო/Position</th> <th style="width: 33%;">ხელმოწერა/Signature</th> </tr> </thead> <tbody> <tr> <td style="height: 40px; vertical-align: bottom;">ქსე მკვს 6, 4</td> <td style="height: 40px; vertical-align: bottom;">გიორგი მკვს 6, 4</td> <td style="height: 40px; vertical-align: bottom;">[Signature]</td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </tbody> </table>			სახელი/Name	უკრძო/Position	ხელმოწერა/Signature	ქსე მკვს 6, 4	გიორგი მკვს 6, 4	[Signature]							Photo №1 			Part 1 – Non-Conformance Description: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Reference Number:</td> <td colspan="2">ENCR_179</td> </tr> <tr> <td>Project Name:</td> <td>Batumi Bypass Road Project</td> <td>Date raised: 08/07/2024</td> </tr> <tr> <td>Contractor Name:</td> <td colspan="2">POLATYOL & MAPA JOINT VENTURE</td> </tr> <tr> <td>Location:</td> <td colspan="2">Bridge No. 10 / No. 10 bogen</td> </tr> </table> Non-Conformance details: On the sidewalk /pavement of the Bridge No. 10, which currently does not have a guardrail, some asphalt residue/waste material is located, this material poses a hazard to vehicles and pedestrians on the local Road directly below the Bridge. No. 10 ხიდის ტროტუარზე, რომელსაც ამჟამად არ გააჩნია დამცავი მოყვანილობა, განთავსებულია ასფალტის ნარჩენი, რომელიც საფრთხეს უქმნის ხიდის ქვეშ არსებულ ადგილობრივ გზაზე მოძრავ პედალსა და ფეხით მოძრაობულ ადგილობრივ მოსახლეობას. Proposed Corrective Measure: განთავსებული მასალის მოცილება გზისგან. Asphalt residue / waste needs to be removed from the sidewalk / pavement. It's necessary the disposal of asphalt waste to the approved dumpsite. საჭიროა ასფალტის ნარჩენის მოშორება ტროტუარსაგან. ასფალტის ნარჩენის გადართმევად დამტკიცებული შედარებული ნაგებობა. Engineer's Representative: Davit Terzadze [Signature] Part 2 – Corrective Action (attach any supporting information) Waste asphalt was removed from 10th bridge. ნარჩენი ასფალტი გადართმევდა №-10 ხიდის ტროტუარსაგან. Agreed Closure Date Date: 26/07/2024 Contractor's Representative: Jaba Mkhavanadze [Signature] Part 3 – Inspection (evidence to support corrective action implementation) Done. Engineer's Representative: Davit Terzadze [Signature] Closure Date: 26.08.2024			Reference Number:	ENCR_179		Project Name:	Batumi Bypass Road Project	Date raised: 08/07/2024	Contractor Name:	POLATYOL & MAPA JOINT VENTURE		Location:	Bridge No. 10 / No. 10 bogen	
სახელი/Name	უკრძო/Position	ხელმოწერა/Signature																														
ქსე მკვს 6, 4	გიორგი მკვს 6, 4	[Signature]																														
Reference Number:	ENCR_179																															
Project Name:	Batumi Bypass Road Project	Date raised: 08/07/2024																														
Contractor Name:	POLATYOL & MAPA JOINT VENTURE																															
Location:	Bridge No. 10 / No. 10 bogen																															

 Polatyo!	Environmental Non-Conformance Report (ENCR)	 SMEC Member of the Saurina Group
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ENCR_179



Photo No. 1 / ფოტო No. 1

Photo No1



 Polatyo!	Environmental Non-Conformance Report (ENCR)	 smec engineering positive change
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Part 1 - Non-Conformance Description:

Reference Number:	ENCR_180	
Project Name:	Batumi Bypass Road Project	Date raised: 10/07/2024
Contractor Name:	POLATYO! & MAPA JOINT VENTURE	
Location:	Contractor's office and Residential Camp Area / კონტრაქტორის საფიცო და საცხოვრებელი ბანაკის ტერიტორია	

Non-Conformance details:
 Contamination of the territory with construction and household waste.
 ტერიტორიის დაზიანება სამშენებლო და საყოფაცხოვრებო ნარჩენებით.

Proposed Corrective Measures:
 შემოღებული-შეორებული ღონისძიება:
 Cleaning the territory from waste and removal from the aforementioned territory.
 ტერიტორიის დასუფიცება ნარჩენებისაგან და ტერიტორიიდან გატანა.

Engineer's Representative: Davit Tevzadze

Signature: 

Part 2 - Corrective Actions (attach any supporting information)

		Agreed Close-out Date Date: 21/07/2024
Contractor's Representative:	Signature:	

Part 3 - Inspection (evidence to support corrective action implementation)

Engineer's Representative:		Signature:
Closure Date:		

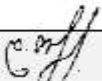
Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change
ENCR_180  09.07.2024 12:01 Photo / ფოტო No. 1	 08.07.2024 11:58 Photo / ფოტო No. 2	 09.07.2024 11:58 Photo / ფოტო No. 3

Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change
 Photo / ფოტო No. 4	 Photo / ფოტო No. 5	 Photo / ფოტო No. 6

Polatyo!	Environmental Non-Conformance Report (ENCR)	
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Part 1 – Non-Conformance Description:	
Reference Number:	ENCR_181
Project Name:	Batumi Bypass Road Project
Contractor Name:	POLATYOL & MAPA JOINT VENTURE
Location:	Tunnel No. 2 Entrance Portal / No. 2 გვირგვინის გამოსასვლელი პორტალი
Date raised: 25/07/2024	
Non-Conformance details:	
The following were observed: ტერიტორიაზე დაფიქსირდა: Cement mixture water and concrete waste spilled on the ground from a concrete truck. Due to the absence of a trash bin at the construction site, the construction site and the adjacent drainage channel are contaminated with scattered household waste (disposable plastic food containers, etc.). სტრუქტურული მასალების მიწაზე დაღვრილი ცემენტის წყალი და ბეტონის ნარჩენი. სამშენებლო მოედანზე სასაფრე ჯოლის არარსებობის გამო, სამშენებლო მოედანი და მის მიმდებარე არსებული სანიაღვრე არხი დაზიანებულია მიმოფანტული საყოფაცხოვრებო ნარჩენებით (საყვების ერთჯერადი პლასტიკის კონტეინერები და სხვა). Propose Corrective Action: It's necessary: შემოსავსებული მკორექტირებელი ღონისძიება საჭირო და აუცილებელია: Cleaning of the mentioned territory contaminated with cement mixture water and concrete waste, removal of concrete waste and store it in a pre-determined disposal area for concrete waste. Also, concrete truck drivers and their supervisors should be trained on the waste management plan, as drivers should know where to place concrete waste to prevent the repeated spills. ცემენტის წყალი და ბეტონის ნარჩენი დაზიანებული ტერიტორიის გაწმენდა, ბეტონის ნარჩენის გატანა და ბეტონის ნარჩენისათვის წინასწარ განსაზღვრული განლაგების ზონაში განთავსება. აგრეთვე, ბეტონის მანქანების მძღოლებსა და მათ ხელმძღვანელებს უნდა განემარტოთ და იცნონ მოწადებული ნარჩენების ბარიერის გვერდის მიხედვით, რაგანააგ მძღოლებს უნდა იცოდეთ, სად მოათავსონ ბეტონის ნარჩენები, რათა თავიდან აიცილონ განმეორებითი დაღვრა. Cleaning the construction site and the adjacent drainage channel from household waste and to mobilize the trash bins at the construction site and it's also necessary to instruct the staff on the correct disposal of household waste. სამშენებლო მოედნის და მის მიმდებარე არსებული სანიაღვრე არხის საყოფაცხოვრებო ნარჩენებისგან გასუფთავება და სამშენებლო მოედნის სანიაღვრე არხების აკრუვა. პერსონალისათვის ინსტრუქციის ჩატარება საყოფაცხოვრებო ნარჩენების სწორად განთავსების შესახებ.	
Engineer's Representative:	Davit Tsvadze
Signature:	

Polatyo!	Environmental Non-Conformance Report (ENCR)	
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Part 2 – Corrective Actions (attach any supporting information)	
Concrete waste and cement mixed with water were removed from the site. Area was cleaned from household waste. Necessary toolbox was conducted. All works are finished. ცემენტისა და წყლის ნარჩენებს ბეტონის ნარჩენები გატანილია სამშენებლო მოედნიდან. საზონიდან დასრულებულია ტერიტორიის დასუფთავება საყოფაცხოვრებო ნარჩენებისგან. ჩატარდა აუცილებელი სწავლება-ინსტრუქტაჟი.	
Contractor's Representative:	Jaba Mzhuradze
Signature:	
Agreed Close-out Date: 29/07/2024	
Part 3 – Inspection (evidence to support corrective action implementation)	
Done	
Engineer's Representative:	
Closure Date:	04.09.2024

Polatyo!	Environmental Non-Conformance Report (ENCR)	
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ENCR_181	
	
Photo / ფოტო No. 1	

Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change
 Photo / ფოტო No. 2	 Photo / ფოტო No. 3	 Photo / ფოტო No. 4

Polatyal & Joint Venture

Photo 1921



Photo No. 2

Polatyo! & Joint Venture

Photo M13



Photo 104



Polatyo! & mapa Joint Venture

ლოკაცია/Location: მე-2 ბეტონის ქარხანა	თარიღი/Date: 30.08.2024
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Type of instruction / ინსტრუქციის სახეობა	Individual/individuality	✗	Tutorial / ჯგუფური	✗	Interactive / ინტერაქტიული	✗
Language of instruction / საინსტრუქციო ენა	Georgian / ქართული	✗	English / ინგლისური	✗	Turkish / თურქული	✗

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Polatyo! &  Joint Venture

#	სახელი გვარი Ad /Soyad	სამუშაო პოზიცია İş Pozisyonu	კომპანია Şirket	ხელმოწერა İmza
1	თაბაჩაძე	პროექტ მენეჯერი	საპროექტო	თაბაჩაძე
2	გოგიშვილი	პროექტ მენეჯერი	საპროექტო	გ. გოგიშვილი
3	მელიქიძე	პროექტ მენეჯერი	საპროექტო	მ. მელიქიძე
4	ფიქაძე	პროექტ მენეჯერი	საპროექტო	ფ. ფიქაძე
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Polatyo! &  Joint Venture

ინსტრუქტორი ჩაატარა:

სახელი/Name გვარი/Surname	თანამდებობა/Position	ხელმოწერა/Signature
ჯანა მგვიშვილი	გარემოს დაცვის სპეციალისტი	ჯ. მგვიშვილი

Polatyo! &  Joint Venture

Photo №1:



	Environmental Non-Conformance Report (ENCR)	
Part 1 – Non-Conformance Description:		
Reference Number:	ENCR_162	
Project Name:	Batum Bypass Road Project	Date raised: 09/09/2024
Contractor Name:	POLATYO! & MAPA JOINT VENTURE	
Location:	Tunnel No. 1 Exit Portal / No. 1 კვანძის გამოსასვლელი პორტალი	
Non-Conformance details:		
The following was observed: ტერიტორიაზე დაფიქსირდა:		
In the drainage channel next to the Tunnel No. 1, cement-mixed water and concrete waste were spilled from the concrete truck.		
Due to the absence of a trash bin at the construction site, the construction site and the drainage channel located adjacent to it are contaminated with construction and household waste (disposable plastic food containers, etc.).		
No. 1 კვანძის არსებულ სანიწევრ არხში და მიწვესტაზე, ბეტონშიდი მიწებიდან დაფიქსირდა ცემენტურ-წყლიანი ნარჩენი და ბეტონის ნარჩენი.		
სამშენებლო მიწებიდან სანიწევრ კუბის არსებობის გამო, სამშენებლო მიწებიდან და მის მიწვესტაზე არსებული სანიწევრ არხი დაზიანებულია მიწვესტაზე სამშენებლო და საყოფაცხოვრებო ნარჩენებისგან (საჭევრის ფორცხები, პლასტიკური კონტეინერები და სხვა).		
Proposed Corrective Action: სწორი/გადასწორებული მიჯნაგადასწორებული ქვეყნის:		
It is necessary: საჭირო და სავალდებულო:		
To Clean the mentioned territory contaminated with cement-mixed water and concrete residue and remove the concrete waste and store it in a pre-defined placement area for concrete waste. Concrete truck drivers and their supervisors should also be trained concerning the issues of the waste management plan, as drivers should be informed where to place the concrete waste to prevent the repeated spills.		
To Clean the construction site and the adjacent drainage channel from household and construction waste and equip the construction site with trash bins and train the staff regarding the correct disposal of household waste.		
ცემენტურ-წყლიანი ნარჩენი და ბეტონის ნარჩენის დაზიანებული ტერიტორიის გაწმენდა, ბეტონის ნარჩენის გაწმენდა და ბეტონის ნარჩენისთვის წინასწარ განსაზღვრულ კარავისთვის ზომის კვალიდან. კონკრეტული ბეტონშიდი მიწებიდან მხოლოდ და მის მიწვესტაზე უნდა განთავსდეს და იყოს მომსახურებული ნარჩენის ნარჩენის კუბის მიწებიდან. საჭიროა, საჭიროა მხოლოდ უნდა იყოს, სადა მოთავსდეს ბეტონის ნარჩენი, რათა თავიდან ავიცილოთ გამეორებული დაფიქსირება.		
სამშენებლო მიწებიდან და მის მიწვესტაზე არსებული სანიწევრ არხის, საყოფაცხოვრებო და სამშენებლო ნარჩენებისგან გაწმენდა და სამშენებლო მიწების სანიწევრ კუბის მიწებიდან, ბეტონშიდიდან,		
ინსტრუქციის ჩატარება საყოფაცხოვრებო ნარჩენის სწორი განთავსების შესახებ.		
Engineer's Representative: Davit Tevzadze		Signature: 

	Environmental Non-Conformance Report (ENCR)	
Part 2 – Corrective Actions (attach any supporting information)		
Adjacent area of the exit portal of the tunnel No1 was cleaned. The works are completed. პირველი ევინანის გასასვლელის მიმდებარე ტერიტორია დასუფთავდა. სამუშაოები დასრულებულია. Agreed Close-out Date Date: 16/09/2024		
Contractor's Representative: Jaba Mzhavazadze	Signature: 	
Part 3 – Inspection (evidence to support corrective action implementation)		
Done.		
Engineer's Representative: Davit Tevzadze	Signature: 	
Closure Date:	15.11.2024	

Polatyo!	Environmental Non-Conformance Report (ENCR)	
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ENCR 182



Photo / ၄၄၄ No. 1

Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change
 Photo / ფოტო No. 2	 Photo / ფოტო No. 3	 Photo / ფოტო No. 4

Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! Environmental Non-Conformance Report (ENCR)  engineering positive change	Polatyo! &  Joint Venture Photo N61  Photo N62 
 Photo / ឆ្លាក់ No. 5	 Photo / ឆ្លាក់ No. 6	



Polatyo! & Joint Venture

Photo N88



Photo N89



Polatyo! & Joint Venture

Photo N90



Photo N91



Polatyo! & Joint Venture

Photo N912



	Environmental Non-Conformance Report (ENCR)	
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Part 1 – Non-Conformance Description:

Reference Number:	ENCR_183		
Project Name:	Batumi Bypass Road Project	Date raised:	06/11/2024
Contractor Name:	POLATYOL & MAPA JOINT VENTURE		
Location:	Tunnel No. 1 Exit Portal, Beginning of Bridge No. 3, Interchange No. 1/ No. 1 კერძის განთავსებული პორტალი, No. 3 ხიდის დასაწყისი და 1-ლი კანკი.		

Non-Conformance details:

The following non-conformances were observed:
ტერიტორიაზე დაფიქსირდა:

Concrete blocks, concrete and asphalt waste.
ბეტონის ბლოკები, ბეტონის და ასფალტის ნარჩენები.

The aforementioned territory is contaminated with scattered construction and household waste.
ტერიტორია დაზიანებულია მიმოფანტული საშენებლო და საყოფაცხოვრებო ნარჩენებით.

Proposed Corrective Action:
შემოსაფარებელი მაკროცენტრული ქსოვი:

It's necessary:
საჭირო და აღკვეთილია:

To clean the territory contaminated with concrete blocks, concrete and asphalt waste and remove these concrete blocks, concrete and asphalt waste to the approved disposal area.

To clean the territory from household and construction waste.
ბეტონის ბლოკების, ბეტონის და ასფალტის ნარჩენებით დაზიანებული ტერიტორიის გაწმენდა, ბეტონის ბლოკების, ბეტონის და ასფალტის ნარჩენების გატანა/გამოღება წესიერი განაშენიანების კანონების ზიანში.

ტერიტორიის დასუფიცება საოფიცოვრები და საშენებლო ნარჩენებისა.

Engineer's Representative: Davit Tsvadze	Signature: 
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	Environmental Non-Conformance Report (ENCR)	
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Part 2 – Corrective Actions (attach any supporting information)

Contractor's Representative:	Signature:
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Part 3 – Inspection (evidence to support corrective action implementation)

Engineer's Representative:	Signature:
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Closure Date:	
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Agreed Close-out Date:
 Date: 15/11/2024

ENCR_183



Photo / ფოტო No. 1

Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change  Photo / ფოტო No. 2	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change  Photo / ფოტო No. 3	Polatyo! Environmental Non-Conformance Report (ENCR)  asmec engineering positive change  Photo / ფოტო No. 4
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Annex 8 Training

Training regarding AIDS and Hepatitis was held on 10.09.2024 and 26.11.2024

Polatyo! &  Joint Venture		Attendance List	
No	Name, Surname	Company	Signature
1	<i>[Handwritten: Mphahlele Mphahlele]</i>	<i>[Handwritten: Mphahlele]</i>	<i>[Handwritten: Mphahlele]</i>
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Contractor Camp
10.09.2024



Attendance List

No	Name, Surname	Company	Signature
1	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
2	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
3	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
4	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
5	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
6	2. 2. 2. 2.	Polat yul	2. 2. 2. 2.
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Contractor Camp

26.11.2024

Annex 9 Information regarding the location and number of trees cut

No	Location (from km – to km)	Description	Cut Trees nos.
1	km 00+000 ~ km 00+650	Tree cutting and removal of trees	57 nos
2	km 00+650 ~ km 00+780	Tree cutting and removal of trees	7 nos
3	km 00+780 ~ km 00+970	Tree cutting and removal of trees	141 nos
4	km 01+440 ~ km 01+800	Tree cutting and removal of trees	160 nos
5	km 01+800 ~ km 02+050	Tree cutting and removal of trees	94 nos
6	km 02+050 ~ km 02+250	Tree cutting and removal of trees	105 nos
7	km 02+250 ~ km 02+266	Tree cutting and removal of trees	39 nos
8	km 02+990 ~ km 03+500	Tree cutting and removal of trees	199 nos
9	km 03+500 ~ km 04+000	Tree cutting and removal of trees	323 nos
10	km 04+000 ~ km 04+500	Tree cutting and removal of trees	120 nos
11	km 04+500 ~ km 05+000	Tree cutting and removal of trees	19 nos
12	km 05+000 ~ km 05+500	Tree cutting and removal of trees	25 nos
13	km 05+500 ~ km 06+030	Tree cutting and removal of trees	65 nos
14	km 06+700 ~ km 07+700	Tree cutting and removal of trees	742 nos
15	km 08+500 ~ km 08+800	Tree cutting and removal of trees	860 nos
16	km 08+800 ~ km 09+220	Tree cutting and removal of trees	430 nos
17	km 09+220 ~ km 09+560	Tree cutting and removal of trees	666 nos
18	km 10+060 ~ km 10+500	Tree cutting and removal of trees	640 nos
19	km 10+500 ~ km 11+000	Tree cutting and removal of trees	268 nos
20	km 11+000 ~ km 11+500	Tree cutting and removal of trees	267 nos
21	km 11+500 ~ km 12+000	Tree cutting and removal of trees	84 nos
22	km 12+000 ~ km 12+400	Tree cutting and removal of trees	311 nos
23	km 12+400 ~ km 12+640	Tree cutting and removal of trees	324 nos
24	km 12+640 ~ km 12+830	Tree cutting and removal of trees	563 nos
Total Cut Trees:			6,509.00 nos

Annex 10 Test Result of Soil Removed from Batumi Oil Terminal

	შპს კვლევითი ცენტრი „გამა“-ს სამოცდო ლაბორატორია დ. გურამიშვილის გამზ. #19დ. 0192. თბილისი საქართველო ტელ. +(995 32) 2601024; Mob: +(995) 599504435; e-mail: labamiam@gamma.ge ტელ. +(995 32) 2601024; Mob: +(995 393305620 e-mail: zh.guriam@gamma.ge	TESTING LABORATORY of Ltd Research Center "GAMMA" D. Guramishvili ave. #19d. 0192., Tbilisi, Georgia Tel. +(995 32) 2601024; Mob: +(995) 599504435; e-mail: labamiam@gamma.ge Tel. +(995 32) 2601024; Mob: +(995 393305620 e-mail: zh.guriam@gamma.ge	 
საიდენტიფიკაციო № GL – QA- 1 -G-24			

Research Center GAMMA Ltd

09.12.2024

გამოცდის ოქმი № 1462

დამკვეთი:	სს „ფოლათ იოლ იაფი სანაიი ვე თიჯარეთი - ს საქართველოს ფილიალი“ ჯაბა შავანაძე 514 144411
ნიმუშის მიღების განაცხადი #, თარიღი	# 712; 03.12.2024
ლაბორატორიული ნომერი #	2024 S
ნიმუშების რაოდენობა	1
ნიმუშის ტიპი: (ნიადაგი, ჰაზი, ფსკერული ნალექი, ტექნოლოგიური ნიშნული)	ნიადაგი
ნიმუშის ლაბორატორიაში მიღების თარიღი:	03.12.24
გამოცდის დაწყების თარიღი	03.12.24
გამოცდის დასრულების თარიღი	09.12.24
შედეგების ანგარიშგებაზე პასუხისმგებელი	ნ. მაჩიტაძე

ანალიზის შედეგები

№	ნიმუშის დასახელება	ლაბ. რეგ. №	TPH მგ/კგ
1	N1 ნიადაგი	2024 S	< 2.0
გამოცდის მეთოდი			სოპ GL – SOP-SCh-19- G-24. ვალიდირებული მეთოდი
ზღვ			1000

ნიმუში აღებულია დამკვეთის მიერ
დაუმუშავლია გამოცდის ოქმის ნაწილობრივ აღწარმოება ლაბორატორიის წერილობითი ნებართვის გარეშე.
შედეგები მიეცემა მხოლოდ გამოცდილ ნიმუშებს

ლაბორატორიის ხელმძღვანელი



მ. გურჯია