

# Environmental Monitoring Report

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Project Number: 45389  
Bi-Annual Report  
January 2017

## AZE: Second Road Network Development Investment Program – Project 2

Prepared by Azeravtoyol OJSC of the Republic of Azerbaijan for the Asian Development Bank.

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

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# Bi-annual Environmental Monitoring Report

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**Project Number: 45389-004**

**January 2017**

Republic of Azerbaijan:

Road Network Development Program, Project: Tranche 2  
Construction Supervision of the Alat-Astara Highway Jalilabad  
Intersection to Shorsulu Intersection  
(Financed by the Asian Development Bank)

*Report 2: 1<sup>st</sup> July 2016 to 31<sup>st</sup> December 2016*

*Loan: 3144-AZE*

Prepared by **AzerAvtoyol OJSC** for the Asian Development Bank (ADB)

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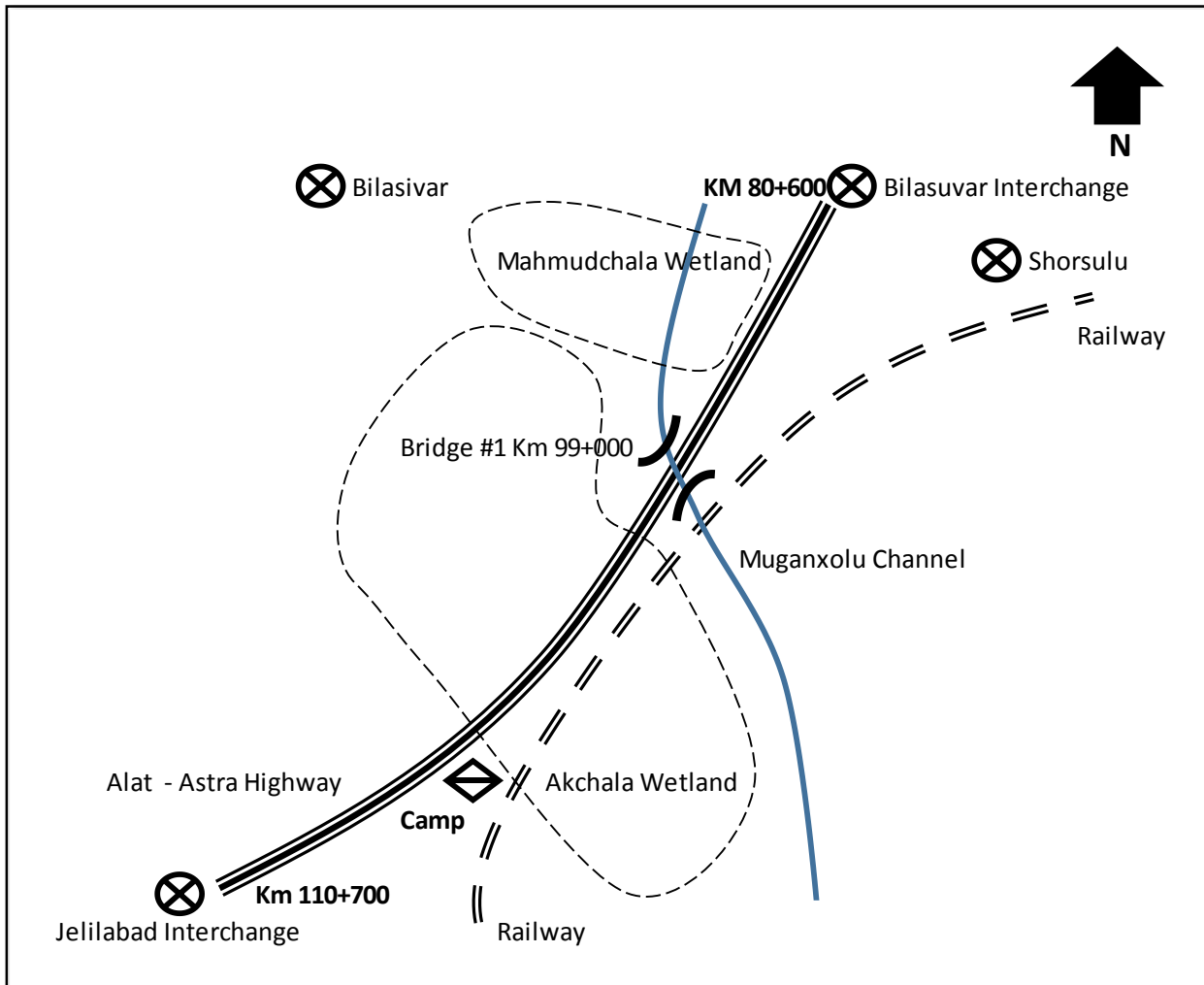
## Part I - Introduction

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

#### i. General information

1. The Contract, which comprises sections of the Alat-Astara Motorway (M3), commences at the Bilasuvar Interchange (Km80+600) and runs in a generally south westerly direction ending at the Jalilabad Interchange (Km 110+700). It forms part of the road connection from Baku to the Iranian border (at Astara). The road alignment passes through the Mahmudchala and Akchala wetlands. A schematic arrangement of the project is presented in the following figure.

Figure 1: Schematic arrangement of the alignment



2. The Executing Agency for the project is the AzerAvtoyol Open Joint Stock Company.

3. An Environmental Impact Assessment (EIA) was carried out for the project in 2007 and included an Environmental Management Plan (EMP) that set out the environmental requirements for the project. The EIA report was approved by AzerAvtoyol and Asian Development Bank (ADB) in 2012<sup>1</sup>, and has served as a basis for the development of the specification and contract documents, and for the preparation of the Contractor's Site Specific Environmental Management Plan (SEMP). The SEMP includes a set of 4 main plans (Camp, Workshop, Plant Operation and Road Construction) and 8 sub plans (Water, Air Pollution, Noise, Waste, Soil, Site Drainage, Borrow Pit, Flora & Fauna and Cultural and Archaeological Find and Grievance Redress Mechanism).
4. The Supervision Consultant (SC) appointed by AzerAvtoyol is TERA International Group. Inc. (TERA). The Contract is Design and Build (DB)<sup>2</sup> and the Construction Contractor (CC) is Kolin Construction Tourism Industry and Trade Co. Inc. (Kolin).

## ii. Objectives of Biannual Environmental Reporting

5. The purpose of the Bi-annual Environmental Monitoring Reports is to provide a summary of the key issues relating to environmental management over the past six months. The summary includes an update on overall project progress, the status of Site Environmental Management Plan (SEMP) implementation, any progress made with environmental management, environmental monitoring results, and other relevant issues such as non-compliance and corrective actions, and monitoring of the Grievance Redress Mechanism (GRM).

## iii. Progress

6. The 30.1 Km. site has been handed over to the CC and Formation of Embankment in both wetland area by rock material and dry area with sand material are being carried out over 20.7 Km. In addition manufacturing of Pipes, Construction of Pipe & Box Culverts, Road Underpasses, Pre-stressed Girders, Test Piles, Working Piles, Piers, Transoms, laying of capping layer etc. are in progress. General construction items and materials have been procured. Aggregate production for subbase and asphalt is in progress which will enable the Contractor to start the asphalt activities without any lack of material.
7. Although progress of work slowed down due to cold weather condition in the last period of the year, the Contractor is believed to have the resources to accelerate progress and reach the planned completion date.

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<sup>1</sup>ADB project 45389-001 in Azerbaijan. Second Road Network Development Investment Program: Masalli (Sarcuvar) Interchange to Shorsulu (Bilasuvur) Interchange. <http://www.adb.org/projects/documents/second-road-network-development-investment-program-masalli-to-shorsulu-interchange-eia>

<sup>2</sup>Design and Build is a method to deliver a project in which the design and construction services are contracted by a single entity (the Design and Build Contractor – in this case the CC (Kolin).

8. Kolin has acquired a lease on land at km110 +700 and established a construction camp and manufacturing area.
9. The CC has transported material from Lankaran Borrow pit, Yardimli Borrow Pit , Jalilabad Quarry, Sabirabad Quarry ,Ashurlu quarry, Yusufu Quarry and Bahramtapa Quarry

*Table 1: Progress by percentage of contract sum*

		Notes
Contract Time Elapsed (up to 23 <sup>rd</sup> December 2016)	348 Days	
Planned Progress (1 <sup>st</sup> submission document)	41.4%	
Actual progress (Revised cash flow subject to approval)	36.10%	

## **1.2. Changes in project organization and environmental management team**

10. The organization structure is shown in the following figure.

*Figure 2: Organization Structure for the Project*

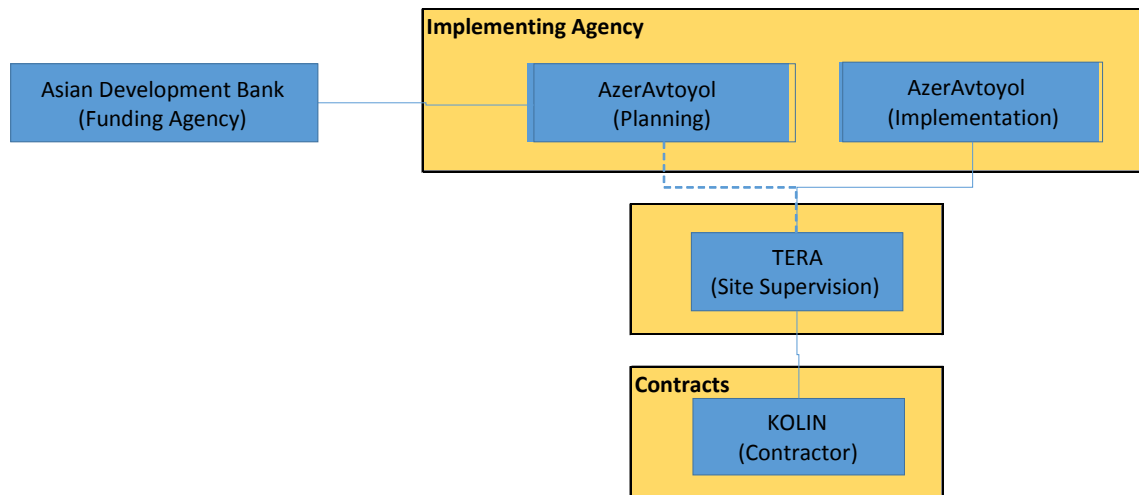


Table 2: Environmental Management Team active on project

Organization	Name	Title	Responsibilities	On project
AzerAvtoyol OJC PIU	Yusif Atakishiyev	Environmental Specialist		
TERA (SC)	Andrew Taylor	International Environmental Specialist	Confirming acceptable levels of environmental performance on site	(1) 31 Mar 2016 to 28 Apr 2016 (2) 17 Nov 2016 to 27 Nov 2016.

	Alizamin Mustafayev	National Environmental Specialist	Day to day observation and recording of environmental performance on site of	From 11 Feb 2016 to date
	Prof. Luca Luiselli	Turtle Expert	Assessment of turtle population on site and production of Turtle Action Plan	25 Apr 2016 to 7 May 2016
KOLIN (CC)	Hafiz Abilhasanov	Environmental Manager		
	Elchin Kerimov	Health and Safety Officer		
		Environmental Protection Team		
		Turtle Catch Group	Implement the turtle management plan and ensure fencing, notices and workers are aware of turtle issues	

### 1.3. Relationships with contractors, owner, lender, etc.



11. The relationships between Funding Agency (ADB), Implementing Agency (AzerAvtoyol), Supervision Consultant (TERA) and Contractor (Kolin) are considered to be normal working relationships.

12. At the working level, communication with regards to environmental issues remains good and interaction with the public is good.

*Table 3: Environmental subcontractors active on the project*

Activity area	Organization	Description of work
Laboratory	KOLIN	The CC (KOLIN) operate a materials testing facility in the construction camp. The facility is audited by TERA under the requirements of the Quality Plan. There is no environmental testing carried out onsite by KOLIN
Environmental Monitoring	AKO group of Azerbaijan	Carry out noise, air and water quality sampling. Water quality testing is carried out by the Azerbaijan National Laboratory
Waste Management		Collect waste from transfer station on camp and transport it to disposal facility

### **Part II - Environmental Monitoring**

13. Preconstruction monitoring of Air Quality, Water Quality, Noise and Vibration took place on 7th February 2016. The monitoring comprised six air quality, noise and vibration monitoring locations and one water quality site at Muganxolu channel (upstream and downstream from Bridge No1 Km 99+000). The six air, noise and vibration monitoring points are at three locations in Uzuntepe Village (immediately east of the camp), the sand borrow pit (located north of Uzuntepe Village) and two locations at the Vilash rock borrow pit (south of Bambashi

Village). The first round of construction phase monitoring was carried out on May 21, 2016 and an interim sampling exercise was carried out in November 2016.

14. In addition to daily informal monitoring by the TERA and KOLIN environmental teams there is a joint weekly inspection by TERA and KOLIN at the camp and working sites. Observations are that work was being carried out in accordance with the environmental requirements of the EIA its EMP and the SSEMP. There were no environmental non-conformities recorded in the reporting period.
15. Preconstruction monitoring of Air Quality, Water Quality, Noise and Vibration took place on 7th February 2016. The monitoring comprised six air quality, noise and vibration monitoring locations and one water quality site at Muganxolu channel (upstream and downstream from Bridge No1 Km 99+000). The six air, noise and vibration monitoring points are at three locations in Uzuntepe Village (immediately east of the camp), the sand borrow pit (located north of Uzuntepe Village) and two locations at the Vilash rock borrow pit (south of Bambashi Village). The first round of construction phase monitoring was carried out on May 21, 2016.
16. In addition to daily informal monitoring by the TERA and KOLIN environmental teams there is a joint weekly inspection by TERA and KOLIN at the camp and working sites. Observations in March are that work was being carried out in accordance with the environmental requirements of the EIA its EMP and the SSEMP. There were no environmental non-conformities recorded in the reporting period.

i. Results

17. The following tables set out the results of the pre-construction environmental monitoring programme.

*Table 4: Water Quality Monitoring Results (at Muganxolu channel)*

<b>Parameter</b>	<b>Units</b>	<b>Upstream</b>	<b>Downstream</b>	<b>Allowable</b>
<b>pH</b>		<b>6.8</b>	<b>7.0</b>	<b>6.0 – 9.0</b>
Conductivity	X10 <sup>3</sup> cm/cm	0.180	0.182	-

Limpidity	cm	16.7	16.8	>30
Turbidity	mg/l	18.4	18.6	>30
Dissolved Oxygen O <sub>2</sub>	mg/l	4.1	4.2	4.6 – 6.0
BOD	mg/l	2.3	2.4	3
Roughness		5.1	5.2	7.0
Calcium Ca <sup>2+</sup>	mg/l	128.1	129.0	180
Magnesium Mg <sup>2+</sup>	mg/l	43.2	43.4	200
Chloride Cl <sup>-</sup>	mg/l	144.8	145.0	350
Sulphate SO <sub>4</sub> <sup>2-</sup>	mg/l	221.3	221.4	500
Bicarbonate HCO <sub>3</sub> <sup>-</sup>	mg/l	198.2	198.4	-
Na <sup>+</sup> & K <sup>+</sup>	mg/l	168.4	167.8	-
Sum of Ions	mg/l	904.0	905.1	1000
Ammonium NH <sub>4</sub> <sup>+</sup>	mg/l	<b>0.434</b>	<b>0.435</b>	0.39
Nitrite NO <sub>2</sub> <sup>+</sup>	mg/l	0.012	0.012	0.02
Nitrate NO <sub>3</sub> <sup>+</sup>	mg/l	6.4	6.6	9.0
Oil & grease	mg/l	0.002	0.002	0.05
E-coli	Per liter	837	840	1000
Total SS	mg/l	0.238	0.240	0.25

SSAM	mg/l	0.03	0.04	0.1
Phenol	mg/l	0.0001	0.0001	0.001

Table 5: Air Quality Monitoring Results

	Close to the Camp (Uzuntepe village)												Vilash Borrow (Banbashi Village)					
	N of camp			E of Camp			SE of camp			S of sand borrow			N of Borrow			NE of Borrow		
Units (mg/m <sup>3</sup> )	Dust	NO <sub>2</sub>	CO	Dust	NO <sub>2</sub>	CO	Dust	NO <sub>2</sub>	CO	Dust	NO <sub>2</sub>	CO	Dust	NO <sub>2</sub>	CO	Dust	NO <sub>2</sub>	CO
Allowable	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5
09:00 7 Feb 16	0.1	<b>0.32</b>	1	0.1	0.034	1	0.1	0.035	1	0.2	0.038	2	0.2	0.039	2	0.2	0.036	2

Table 6: Noise Monitoring Results

	Close to the Camp (Uzuntepe village)				Vilash Borrow (Banbashi Village)	
	N of camp	E of Camp	SE of camp	S of sand borrow	N of Borrow	NE of Borrow
Units (dB)						

Allowable	70	70	70	70	70	70
09:00 7 Feb 16	59.4	50.0	56.7	59.4	52.2	57.5

Table 7: *Vibration Monitoring Results*

	Close to the Camp (Uzuntepe village)				Vilash Borrow (Banbashi Village)	
Units (dB)	N of camp	E of Camp	SE of camp	S of sand borrow	N of Borrow	NE of Borrow
Allowable	77	77	77	77	77	77
09:00 7 Feb 16	65	56	63	65	57	64

The following tables set out the results of the May and November 2016 environmental monitoring programme

Table 8: *Water Quality Monitoring Results (at Muganxolu channel)*

18. No work, so no monitoring carried out in May or November 2016. Note that weekly site audits include reporting markers for visual indicators of silty runoff

Table 9: *Air Quality Monitoring Results*

Close to the Camp (Uzuntepe village)			
N of camp	E of Camp	SE of camp	S of sand borrow

<b>Units (mg/m<sup>3</sup>)</b>	<b>Dust</b>	<b>NO<sub>2</sub></b>	<b>CO</b>	<b>Dust</b>	<b>NO<sub>2</sub></b>	<b>CO</b>	<b>Dust</b>	<b>NO<sub>2</sub></b>	<b>CO</b>	<b>Dust</b>	<b>NO<sub>2</sub></b>	<b>CO</b>
Allowable	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5	0.5	0.085	5
21,May 2016	0.3	0.45	2	0.3	0.042	3	0.2	0.040	2	0.3	0.048	3
13 Nov 2016	0.2	0.032	1	0.2	0.043	2	0.2	0.036	2	0.3	0.03	1

19. All compliant. Note that the weekly site audits include reporting markers for visual impacts of dust. Given the open arrangement of the alignment (for dispersion) and the good standard of equipment vehicle exhaust emissions are not anticipated to be a problem on this project.

Table 10: Noise Monitoring Results

	<b>Close to the Camp (Uzuntepe village)</b>					
<b>Units (dB)</b>	<b>N of camp</b>	<b>E of Camp</b>	<b>SE of camp</b>	<b>S of sand borrow</b>		
Allowable	70	70	70	70		

21 May 2016	57.2	51.9	49.0	45.6		
13 Nov 2016	46.4	42.4	49.7	40.7		

Table 11: Vibration Monitoring Results

	Close to the Camp (Uzuntepe village)					
Units (dB)	N of camp	E of Camp	SE of camp	S of sand borrow		
Allowable	77	77	77	77		
21 May 2016	64	58	47	52		
13 Nov 2016	52	49	56	47		

20. Given the absence of sensitive receivers on the alignment noise and vibration issues are not considered to be an issue but are included as a checklist item in the weekly monitoring audits.

### Part III - Environmental Management

#### 3.1. The environmental management system (EMS), site-specific environmental management plan (SSEMP), and work plans

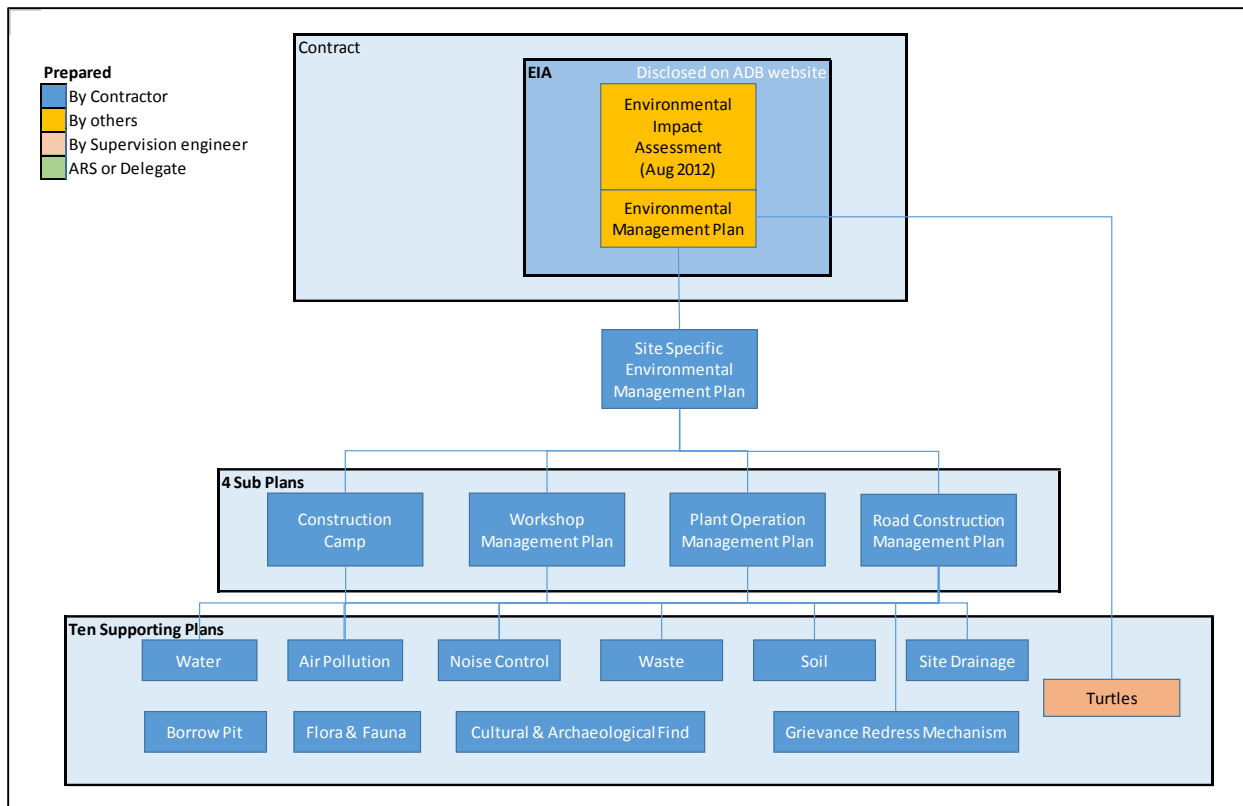
##### Status

21. The project is in its first year and in terms of environmental management the key issue is to ensure that the Contractor (Kolin) understands the environmental requirements of the project and that these requirements are being met, and that the necessary environmental documentation and licenses are in place.

ii. Documents

22. Guiding environmental documentation used on the project.

Table 12: Environmental documentation used on the project



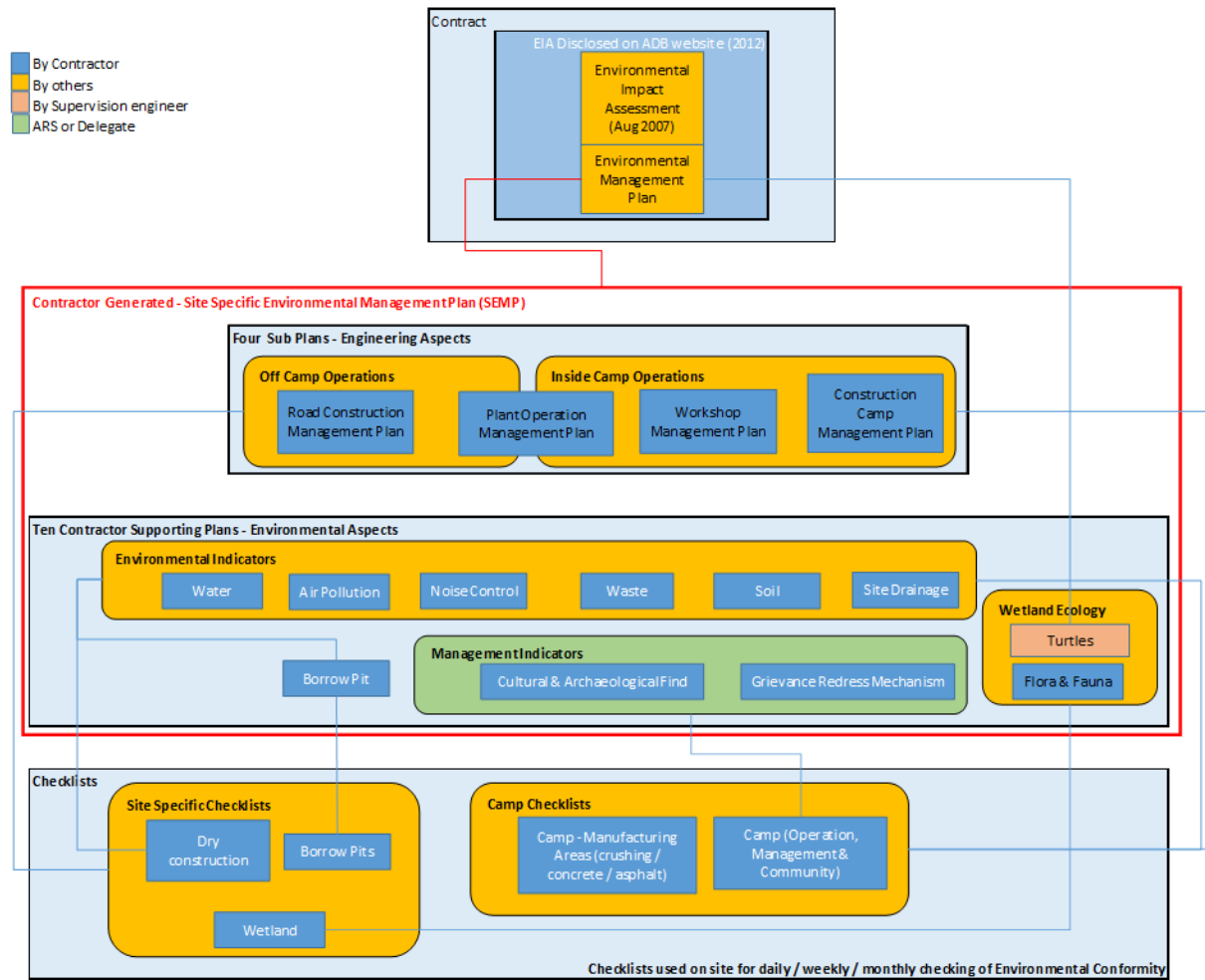


iii. Inspections and Audits

23. Kolin and TERA carry out weekly site audits covering all operational sites and the camp compound. Kolin use a checklist identified in the SEMP comprising a single document that covers all work aspects. Kolin have developed this document over a number of years and projects and they find that it provides the detail that they need to monitor environmental performance of the works. TERA use a modified document comprising a series of one page sheets covering specific aspects of the work.

24. The TERA checklists feed from the Contractor generated SMP. The following figure illustrates the relationship.

Table 13: TERA checklist concept – Feeding from Contractor SEMP



25. The sheets cover:

- Camp (including the offices, canteen, recreation areas and accommodation units)

- Crushing plant (including the pre-processing and post-processing stockpiles
- Concrete Plant (Including the batching plant stockpiles and settlement tanks);
- Workshop Area (including banded storage of liquids, wash down & settlement tanks);
- Borrow Pits (Operation activities including dust & noise control, and runoff control)
- Wetland (activities within the wetland)
- Management and Community (Environmental document control, Grievance Redress)

26. The TERA sheets also include options for recording three level of impact:

- Observation – a potential for localized environmental impact but none has occurred;
- Opportunity for Improvement – a recurrent “observation” requiring action but again no incident has occurred.
- Non Conformity – recurrent OFI or an incident has occurred and a Corrective Action Plan (CAP) and staff retraining / education may be required

Table 14: Log of Audits carried out

Date	Weekly Joint monitoring		Monthly TERA Audit by::	Non-conformity
	Kolin	TERA		
05 Jan 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
12 Jan 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
19 Jan 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
26 Jan 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
03 Feb 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10 Feb 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

16 Feb 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
22 Feb 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
06 Mar 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
14 Mar 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
23 Mar 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
01 Apr 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
07 Apr 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11 Apr 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
24 Apr 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
07 May 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
14 May 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Observation – 4 oil drums outside fuel bund. Rectified
21 May 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Alizamin	
26 May 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Observation – Concrete Plant open drainage line filled with sediment. Rectified
04 Jun 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

11 Jun 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Observation – sedimentation tank needs sediment removed. Rectified
18 Jun 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
25 Jun 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Alizamin	

iv. Non-Compliance and Corrective Actions

27. The Contractor, Kolin, has registered minor deviations from the Environmental Management Plan in the project EIA. These deviations are considered to be in the lowest level of the “non-conformity” and have been rectified promptly without significant impact on the environment.

28. TERA performs audit using a three-tier level of “non-conformity.”

- Observation – a potential for localized environmental impact but none has occurred;
- Opportunity for Improvement – a recurrent “observation” requiring action but again no incident has occurred.
- Non Conformity – recurrent OFI or an incident has occurred and a Corrective Action Plan (CAP) and staff retraining / education may be required.

v. Consultations and Complaints

a. Public Consultations

29. In the SEMP Kolin identifies public meetings at six monthly to inform the local community of project activities. The first public consultation was on 5th February 2016 in the Kolin Camp for the villagers of Uzuntepe, immediately east of the camp. The next meeting has been rescheduled from 15<sup>th</sup> June 2016 to a date to be confirmed in August.

Table 15: Schedule of Public Consultations

Scheduled	Actual	Venue	Discussion Items	Attendees
20 Dec15	5 Feb 16	Kolin Camp	Construction schedule & Grievance Redress Mechanism	21 – No comments from attendees.
15 Jun 16	27 August	Kolin Camp	Construction schedule & Grievance Redress Mechanism	16-complaints about some dust problem from attendees
10 Dec 16				
5 Jun 17				
10 Dec 17				
15 Jun 18				
20 Dec 18				

b. Grievance Redress Mechanism

30. The Grievance Redress Mechanism (GRM) is included in the EMP and has been developed in the Kolin SEMP. A Grievance Focal Point has been established for the Uzuntepe – Celilabad Area with two hotlines. Two minor complaints were registered in the complaints log in in the first six monthly reporting period but have been promptly addressed. The Grievance Redress Committee has not had course to convene in January to June 2016.

Table 16: Complaints and Compliments

Date	Number	Description	Resolved
Jan 2016	Nil	-	-
Feb 2016	1	Damage to property-	Repaired to satisfaction of complainant-
Mar 2016	Nil		-
April	Nil	-	-
May	2	Household lands were occupied more than agreed	PIU have been informed and the problem has been solved
Jun	Nil	-	-

c. Staff Training and Education

31. Environmental Training – TERA presented a training workshop on the SEMP for the environmental team of Kolin on Thursday 14<sup>th</sup> April 2016 in the TERA offices at the Kolin Construction camp. The workshop covered lines of communication, SEMP documentation and potential environmental impacts of the project.
32. Water Quality – Due to the presence of valuable wetlands that the project will cross, TERA organized a training workshop on the ways that construction activity can affect the water environment and the precautions needed to prevent runoff. The workshop was held in the TERA offices on 25 May 2016

33. Turtle Management Plan –Mr. Luca Luiselli (Ecologist – Turtle Specialist) presented the Turtle Management Plan to members of the KOLIN site team on 05 May 016. The main items covered were how to protect turtles from construction impacts. Both direct impact from construction activity (e.g. siltation, fatalities due to turtle plant interaction) and indirect actions (e.g. disruption of breeding activities).
34. The PowerPoint presentations used in the training are included as an appendix to the document.

*Table 17: Staff training*

<b>Date</b>	<b>Subject</b>	<b>Venue</b>	<b>Presenter</b>	<b>Attendees</b>
14 April 2016	Site Specific Environmental Management Plan (SEMP)	TERA office, Kolin Camp at Km110	A Taylor – International Monitoring Specialist (TERA)	7
05 May.2016	Turtle Management Plan	TERA office, Kolin Camp at Km110	Mr. Luca Luiselli-Ecologist – Turtle Specialist (TERA)	5
25 May 2016	Water Pollution	TERA office, Kolin Camp at Km110	Alizamin Mustafayev – Environment/Safeguard specialist (TERA)	4

d. HIV / AIDS

35. Kolin presented the first HIV / AIDS briefing for site staff on 11<sup>th</sup> April 2016. The presentation was made by Mr. Murselov (Camp Doctor of Kolin) and was attended by 33 members of the construction team.
36. There was minimal increase in camp population and the scheduled 20 July 2016 briefing was suspended.
37. A supplementary briefing was held on 12<sup>th</sup> November 2016 to educate new arrivals at the site.



Table 18: HIV / AIDS briefing

Scheduled	Actual	Venue	Presenter	Attendees
20 Apr 16	11 Apr 16	Kolin Camp at Km 110	Dr Murselov (Camp Doctor of Kolin)	33
20 Jul 16	No influx		No influx, meeting deferred	-
20 Oct 16	12 Nov 16		Dr B. Hasanov (Camp Doctor of Kolin)	35
20 Jan 17				
20 Apr 17				
20 Jul 17				
20 Oct 17				

Meeting schedule from SEMP (April 2016, Pg. 198)

vi. Emerging Issues

38. . No specific emerging environmental issues have been identified but with work in and close to wetlands. Kolin must be vigilant on the potential for adverse impact and continue implementing the mitigation measures identified in the Contractor Site Specific Environmental Management Plan (SEMP)

Table 19: Status of Environmental Management System Plans

Management Plan	Responsibility	Status
Environmental Impact Assessment (EIA)	Pre project	Completed – uploaded to ADB website
Environmental Management Plan (EMP)		As part of approved EIA

Turtle Management Plan (TMP)	TERA – Turtle expert.	Prepared and included in CC SEMP
Site-Specific EMP (SSEMP)	CC - KOLIN	Submitted, not approved
Monitoring plan	CC - KOLIN	Submitted and approved as part of CC SEMP

### 3.2. Site inspections and audits

This chapter summarizes the number and type of site visits performed by environmental professionals associated with the project:

*Table 20: Site visits and audits*

	PMU environmental specialist		
	TERA (SC) international environmental specialist		
	TERA (SC) national environmental specialist		
	KOLIN (CC) environmental specialist		
	ADB mission review		

	National Environmental Consultant of ADB		

### 3.3 Non-compliance notices

39. TERA has not found instances where Non-compliance notices need to be issued. Working on three levels of audited impact: observation; opportunity for improvement; and non-compliance, environmental issues have been in the observation and opportunity for improvement range and the CC (KOLIN) have been very responsive in addressing these issues.

### 3.4. Corrective action plans

40. There were no incidents in the reporting period that required a Corrective Action Plan. As noted environmental incidents were in the “observation” or “opportunity for improvement range and the CC (KOLIN) have been responsive to audit observations.

### 3.5. Consultation and complaints

41. In the SEMP Kolin identifies public meetings at six monthly to inform the local community of project activities. The first public consultation was on 5th February 2016 in the Kolin Camp for the villagers of Uzuntepe, immediately east of the camp. The next meeting was held in August. The local people were informed about the project activities. There have been no complaints from the local community.

#### **Part IV – Action Plan for the Next Period**

It is proposed that the International ES attends the site in April 2016, this is the period when the turtle population emerge from hibernation and enter the mating season. The IES should

- Facilitate a turtle workshop for TERA (SC) and KOLIN (CC) active parties
  - Identification of the Turtle catch group for 2017
  - Training of the Turtle catch group for 2017
- Repeat the population survey conducted in May 2016
- Confirm the environmental audit programme for 2017

#### **ANNEXES:**

##### **Annex 1: Photographs –**

Table 21: Turtle awareness notices on the alignment



*Table 22: Fencing erected (as Turtle Management Plan) to exclude species access*



Table 23: Waste Bins on the alignment

