

Environmental Monitoring Report

Bi-Annual Report
June 2016

AZE: Second Road Network Development Investment Program – Project 1

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.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

Bi-annual Environmental Monitoring Report

June 2016

Republic of Azerbaijan:
Second Road Network Programme, Tranche 1:
Construction Supervision for the Alat-Astara Motorway –
Masalli to Jalilabad Intersection

(Financed by the Asian Development Bank)

Report 4: 1st January – 30th June, 2016

ADB Loan – 2921-AZE-SC-IRD-MR

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

The bi-annual 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.

CURRENCY EQUIVALENTS

(As of 30 June 2015)

Currency Unit	–	Azerbaijan New Manat (AZN)
AZN 1.00	=	USD 0.65
USD 1.00	=	AZN 1.52

ABBREVIATIONS

ADB	–	Asian Development Bank
AZN	–	Azerbaijan New Manat
BOD	–	Biological Oxygen Demand
EIA	–	Environmental Impact Assessment
EMP	–	Environmental Management Plan
EPM	–	Environmental Protection Manager
EPP	–	Environmental Protection Plan
GRM	–	Grievance Redress Mechanism
IPC	–	Interim Payment Certificate
MENR	–	Ministry of Ecology and Natural Resources
PIU	–	Project Implementation Unit
PMC	–	Project Management Consultant
PPE	–	Personal Protective Equipment
SSEMP	–	Site-Specific Environmental Management Plan
STD	–	Sexually Transmitted Disease
ADB	–	Asian Development Bank
EIA	–	Environmental Impact Assessment
EMP	–	Environmental Management Plan
EPM	–	Environmental Protection Manager
EPP	–	Environmental Protection Plan
GRM	–	Grievance Redress Mechanism
MENR	–	Ministry of Ecology and Natural Resources
PIU	–	Project Implementation Unit
PPE	–	Personal Protective Equipment
SSEMP	–	Site-Specific Environmental Management Plan

WEIGHTS AND MEASURES

m	–	Metre
km	–	Kilometre

TABLE OF CONTENTS

I. INTRODUCTION.....	4
A. Introduction to Project.....	4
B. Objectives of Biannual Environmental Reporting	5
C. Methodology.....	5
D. Construction Activities and Project Progress during previous six months	5
E. Project organization and environmental management team.....	5
F. Relationships with Contractors, owners, lenders, etc.	6
II. ENVIRONMENTAL MONITORING	7
A. Status.....	7
B. Results.....	7
C. Action.....	10
III. ENVIRONMENTAL MANAGEMENT	11
A. Status.....	11
B. Documents	11
C. Inspections and Audits	12
D. Non-Compliance and Corrective Actions	13
E. Training.....	25
F. Community Meetings and Grievances	25
G. Emerging Issues	31
H. Conclusions.....	31
IV. ANNEXES	32
ANNEX A: SEMP STATUS	32
ANNEX B: PERMITS	33
ANNEX C: LIST OF PERSONS CONSULTED	35
ANNEX D: CONSULTATION PHOTOS	37
ANNEX E: WATER QUALITY MONITORING RESULTS	38
ANNEX F: AIR QUALITY MONITORING RESULTS	39
ANNEX G: LETTERS TO CONTRACTOR (MAY, 2016)	59
ANNEX H: WATER MONITORING LOCATIONS.....	65
ANNEX I: SITE VISIT PHOTOS (MAY, 2016).....	66

I. INTRODUCTION

A. Introduction to Project

1. The Contract, which comprises sections 3B & 3C of the Alat-Astara Motorway (M3), commences at the Jalilabad Interchange (Km 110+700 – the end of Section 3A) and runs in a generally southerly direction ending just South East of Masalli City (Km 142+800). It forms part of the important road connection from Baku to the Iranian border (at Astara).
2. The Executing Agency for the project is Azeravtoyol - Open Joint Stock Company.
3. An Environmental Impact Assessment (EIA) was carried out for the project in 2007. The EIA report was approved by Azeravtoyol and ADB, and has served as a basis for the development of the specification and contract documents, and for the preparation and pricing of the Contractor Environmental Management Plan (EMP).
4. The Engineer appointed by Azeravtoyol is IRD Engineering LLC. The construction contract for both Sections is Kolin Construction, Inc.
5. This report is the fourth bi-annual report covering the period 1st January, 2016 to 30th June, 2016.
6. Key milestones relating to mobilisation are summarised below:
 - Overall Contract agreement: 912 days (30 Months) – 02 September 2016.
 - The Engineer mobilised on 14th January 2014.
 - Contract Agreement: 11th December 2013.
 - Notice to Commence was issued on 5th March 2015.
 - Earthworks began on March, 2015.

B. Objectives of Biannual Environmental Reporting

7. 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).

8. The Reports are prepared by Azeravtoyol and are intended to inform ADB and any other interested parties of the status of environmental management of the project.

C. Methodology

9. The Biannual Environmental Monitoring Reports are prepared by reviewing and extracting key information from a number of sources, as follows:

- Contractors' Quarterly Health, Safety and Environment (HSE) Reports;
- Contractors' Grievance Registers;
- Engineer's Environmental Health and Safety Managers field reports;
- Any relevant instrumented monitoring results;
- Reports from the Contractors on training and public consultation; and
- Site visits made by the Engineers International Environmental Specialist.

D. Construction Activities and Project Progress

10. The Progress of the Project during the last six months is shown by **Table 1** below:

Table 1: Progress of the Section B Contractor

Item	Progress (%)
Bridge Progress	103.7
Pipe Culvert Progress	98.4
Box Culvert Progress	94.4
Road Work Progress (removal of topsoil)	150.0
Road Work Progress (Embankment)	76.8
Road Work Progress (Capping)	33.6
Physical Progress	58.88
Financial Progress	67.7

E. Project organization and environmental management team

11. The Contractors EHS team comprises:

- a) Vugar Mammadov HSE Manager – responsible for the overall management of HSE issues for the Contractor.
- b) Vasif Selimov HSE officer - Responsible for organisation of daily inspections, reporting, inspection of Camp and plants area, accident investigation, training arrangements, assist in Community meetings arrangements, writing requests for PPE and other HSE provisions.
- c) Vusal Zeynalov HSE inspector - Daily inspections of site construction activities, project vehicles, conducting toolbox training, assist in training and Community meeting arrangements. Coordination of flagman and reporting of unsafe conditions.
- d) Elkhan Valehov HSE inspector - Daily inspections of site construction activities, project vehicles, conducting toolbox training, assist Community meeting arrangements and reporting of unsafe conditions.

12. The Engineers EHS team comprises:

- a) Xalid Mammadov Environmental and Health and Safety Manager (EHSM) – Responsible for the weekly checks of the Contractors activities and reporting to the Team Leader.
- b) Nick Skinner International Environmental Specialist (IES) – Responsible for periodic site visits and preparation of the bi-annual environmental reports on behalf of the Engineer.

F. Relationships with Contractors, owners, lenders, etc.

- 13. The relationships between contractors, Engineer, owners, and lenders are considered normal working relationships.
- 14. At the working level, communication with regards to environmental issues remains good.

II. ENVIRONMENTAL MONITORING

A. Status

15. **General** - According to the SEMP and the Contractors contract, the Contractor is responsible for instrumental monitoring of air quality and noise. There is no contractual requirement for the Contractor to undertake instrumental water quality monitoring. There is however the obligation for regular visual inspections of site drainage for signs of pollution by the Contractor.
16. **Air Quality Monitoring** – Air quality monitoring was undertaken in December, 2015. There was some confusion over the results of the tests at that time. The issues regarding the measurements have now been resolved and the results from December's tests are presented by **Table 2** below. In addition, as per the recommendations of the Engineer, the Contractor has also undertaken air quality monitoring in June to assess the levels of dust arising during the dryer periods of the year. **Table 3** provides the results of the air quality tests undertaken in June, 2016.
17. **Noise Monitoring** - Regarding noise, the Contractor is obliged to undertake yearly noise monitoring at the request of the Employer and after complaints from the public. No complaints from the public regarding noise have been received in this reporting period nor any request for monitoring from the Employer.
18. **Water Quality Monitoring** – During a site visit in June, 2015, the Engineers IES requested that the Contractor undertake pH testing of the drainage system within the Contractors camp to determine if concrete sludge (from poor site management) was having a negative impact on pH levels. The results indicated that the water is acidic which suggests that concrete sludge is not affecting the water quality (concrete has high alkaline levels). However, it was deemed in the last bi-annual report that the reason for the relatively high acidity of the drainage water should be investigated further. Accordingly, additional testing of water quality in and around the Contractors camp was undertaken in June 2016. **Table 4** presents the results of these tests.

B. Results

19. **Air Quality** – Air Quality monitoring was undertaken on the 19th December, 2015 and 22nd June, 2016 at locations specified by the Engineer. The air monitoring results are presented below in **Table 2 & 3** and in full as **Appendix F**.

Table 2: Air Quality Results, 19th December, 2015

#	Location	Result		Compliance*
		PM2.5 (µg/m3)	PM10 (µg/m3)	
1	Kolin Camp – adjacent to the maintenance yard	2.76	7.01	□
2	Kolin Camp – Engineers Office	2.39	6.47	□
3	Kolin Camp – Accommodation	3.41	8.04	□

	blocks			
4	House nearest Bridge 26	3.26	7.15	□
5	Samitkahn Village (close to bridge 27)	4.15	10.14	□
6	Balatekle Village (close to bridge 23)	2.34	8.68	□
7	Chakhirli Village (close to bridge 21)	1.98	7.64	□
8	Station Tekle (close to bridge 19)	2.84	9.12	□
9	Karimabad Village (close to Bridge 17)	2.11	6.79	□
10	School at Uzuntapa village	3.19	7.69	□

*Standard: PM2.5 = 25 µg/m³ / PM10 = 50 µg/m³

Table 3: Air Quality Results, 22nd June, 2016

#	Location	Result		Compliance*
		PM2.5 (µg/m ³)	PM10 (µg/m ³)	
1	Kolin Camp – adjacent to the maintenance yard	3.12	7.84	□
2	Kolin Camp – Engineers Office	2.51	7.36	□
3	Kolin Camp – Accommodation blocks	3.56	8.47	□
4	House nearest Bridge 26	3.39	8.12	□
5	Samitkhan Village (close to bridge 27)	3.87	9.76	□
6	Balatekle Village (close to bridge 23)	2.56	8.14	□
7	Chakhirli Village (close to bridge 21)	2.01	7.79	□

8	Station Tekle (close to bridge 19)	2.68	8.31	☐
9	Karimabad Village (close to Bridge 17)	2.32	7.12	☐
10	School at Uzuntapa village	3.21	7.44	☐

*Standard: PM2.5 = 25 µg/m3 / PM10 = 50 µg/m3

20. The results of the monitoring indicate that air quality in the project area met the required standards during both periods.
21. **Water Quality Monitoring** - Water quality monitoring was undertaken in June, 2016 at locations specified by the Engineer (see **Appendix H** for locations). The water quality monitoring results are presented below in **Table 4** and in full as **Appendix E**.

Table 4: Water Quality Results

#	Components	Unit	Location 1	Location 2	Location 3	Location 4	Norms accepted in Azerbaijan	Compliance
1.	Dissolved Oxygen	mg/l %	7.1 74.2	7.3 75.1	7.0 74.0	7.1 74.2	≥4.0	☐
2.	pH		8.2	8.1	8.1	8.4	6.5-8.5	☐
3.	Suspended Solids	mg/l	24.0	12.0	21.0	18.0	-	
4.	Conductivity	X10 ⁻³ Sm/sm	0.897	0.873	0.881	0.865	-	
5.	COD	mg/l	10.0	10.0	9.7	10.0	10.0	☐
6.	Nitrate (NO3)	mg/l	3.36	2.98	3.1	3.3	45.0	☐
7.	Phosphate (PO4)	mg/l	0.99	0.8	0.8	0.8	3.0	☐
8.	Oil Grease	mg/l	0.04	0.04	0.03	0.05	0,05	☐
9.	Fecal Coliforms:	part/litr	8521	7695	10210	9586	10 000	☐

22. The results of the water quality monitoring indicate that, in general water quality meets the accepted norms in Azerbaijan, with the exception of one measurement of faecal coliforms close the rock crushing plant. Oil and grease levels, as well as COD were found to be on, or very close to the limits set by the standards.

C. Action

23. **Air Quality** – No further actions required.
24. **Water Quality** – Additional water quality monitoring should be undertaken during the next reporting period in order to further assess the levels of fecal coliforms, COD and oil & grease.

III. ENVIRONMENTAL MANAGEMENT

A. Status

25. During May 2016, the Engineers EHSM informed the IES that the Contractor continued to ignore several of the compliance items he was tasked with addressing as part of the recommendations of the last bi-annual report. The EHSM also noted several additional non-compliance issues. Based on this information, the Engineer wrote a letter to the Contractor warning him about the non-compliance issues and instructing him to remedy the issues as a matter of urgency. The non-compliance issues identified by the letter are summarised in **Table 5** below, along with an indication of their current status. The letter itself is provided by **Appendix G**.

26. Notwithstanding the above, there have been no significant accidents during the reporting period involving the public or workers.

27. A site visit was made by the Engineers IES in June, 2016 (June 15th – June 18th). The IES was accompanied on his visit by the Engineers EHSM. The purpose of the visit was to ensure that the Contractor had completed the items outlined in the letter of May, 2016 and to survey the camp and construction sites to see if any new issues have arisen. The findings of the visit are summarised in two tables; **Table 6** outlining the Contractors progress from the last reporting period and the letter of May 2016, and **Table 7** outlining any newly identified non-compliance issues.

B. Documents

28. Part of the Contractors environmental obligations is the production of Quarterly Environmental, Health and Safety Reports based on the findings of regular site inspections, community meetings, training programs, etc. The Contractors EHS Manager, Vugar Mammadov, is responsible for this and all other environmental management issues relating to the contract. The following summarizes the findings of the Quarterly Environmental, Health and Safety Report which prepared in March, 2016 (according to the Contractor, the June 2016 report will not be ready until July 5th):

- a) Spills and Leaks (Jan – Mar, 20016 Report) – The report states that “*contaminated soil (mainly with oil) is collected in drums and labeled as hazardous waste.*” Inspections by the Engineer indicate that there are very few containers on the site labeled „hazardous waste”.
- b) Waste Management (Jan – Mar, 20016 Report) – the report states that hazardous waste is donated to the local community. This has to stop as a matter of urgency as it may lead to off-site pollution incidents and potential health impacts.
- c) Sludge (Jan – Mar, 20016 Report) – the report states “*The issue regarding the waste water in Vehicle washing and concrete washout area reservoirs requested by ADB is solved.*” The report needs to clearly explain how this issue was solved, and in any case the Engineers EHSM noted that this is not the case with the vehicle washing area.
- d) Fire safety (Jan – Mar, 20016 Report) – The report states that “*Fire Fighting (FF) Equipment is provided for all buildings and FF sets are put outside. Kolin HSE department checks the Fire extinguishers on a weekly basis. The extinguishers with low pressure are sent to the supplier for recharging.*” Spot checks by the Engineer indicate that this is clearly not the case.
- e) Updated list of permits – this has been cut and paste from the previous quarterly report without thought as is clearly indicates two out of date contracts (for waste management). However, the report goes on to state that Contractor has a contract for solid and liquid waste.

29. The Quality and content of the March report is generally poor and looked like it had been prepared without thought or care. Many items are simply cut and past items from the previous reports. Reading the report you would imagine that there had been no environmental or health and safety issues for the entire period, which is quite frankly misleading and wrong. This is backed up by the findings of the Engineers EHSM who regularly inspects the site and prepares bi-weekly checklists outlining the current non-compliance issues. The Contractors EHS Manager chooses to ignore these reports and the recommendations of the EHSM. Accordingly, the Engineer wrote to the Contractor asking him to address the concerns noted by the EHSM and the general poor quality of the report and re-submit to the Engineer for review. The Contractors HSE Manager has still not updated the report and continues to bleat on about the fact that he has completed all of the tasks, despite this being untrue.

30. As noted in the previous Bi-Annual Report and mentioned above, the Engineer has now started to complete the bi-weekly EHS checklists instead of the Contractor. All checklists are now completed on time by the Engineers EHSM and submitted to the Team Leader and IES for review every two weeks. The Contractor is still supposed to conduct his own daily and weekly checks, but as stated in the previous report, this is considered doubtful given the lack of environmental management across the site. In addition, the Contractor is supposed to be completing „brief“ monthly reports for the Engineer. According to his contract these should be three to four pages in length. The Contractor has produced two monthly reports, the last one being sent in January, 2016. In a weekly meeting held in June between the Engineers and Contractor (June 17th, 2016), the Contractors HSE Manager was informed that he needs to prepare these reports on a regular basis.

31. The SEMP has been approved by the Engineer along with its thirteen supplemental plans and method statements. **Annex A** provides a list of the plans and documents which form the SEMP. A recent review of the SEMP has led to a request for the Contractor to update an item in the SEMP, specifically the spills prevention methodology where the contractor lists small spills as 1 m³. This item should be changed to 20 liters.

32. The Contractor is responsible for obtaining and maintaining a number of environmental, health and safety permits. **Annex B** provides an overview of the current status of these permits. It is noted that two waste management contracts have expired. The Contractor needs to address this issue and provide the Engineer with the relevant updated contracts.

C. Inspections and Audits

33. The Engineers EHSM conducts site visits over a period of two days on a weekly basis.

34. As noted above, the Engineer's IES also made a site visit to all construction areas and the Contractors camp during the reporting period (15th – 18th June, 2016).

35. The Executing Agency has made a number of *ad hoc* visits to site as required.

D. Non-Compliance and Corrective Actions

36. **Table 5** provides a summary of the Contractors progress identified in the letter of May 2016.

Table 5: Non-compliance Items Noted by the Letter of May, 2016

Item	Comment	Status
Air Quality	The measures to prevent dust emissions are not good enough	On-going – multiple air quality issues exist both at the camp and at work sites. The Contractor is requested to prepare a method statement to manage the high levels of dust around the asphalt plant.
	Lack of tarps on trucks delivering friable materials	On-going – no vehicles were observed in Junes site visit with tarps.
Maintenance Yard	Maintenance of vehicles is not being undertaken in the correct areas	On-going – this issue has improved considerably, but there are still signs of maintenance occurring outside of the covered areas and spills and leaks of hazardous liquids. The Contractors EHS Manager believes this is not an issue as these areas have now been layered with asphalt. However, it was explained to him that when it rains these liquids will wash directly into the site drainage system – which does not have any for of oil interceptor tanks.
Hazardous Liquids	Hazardous liquids are not being stored correctly around the construction camp	On-going – this is another issue that has improved during the reporting period, but there are still signs of poor management of hazardous liquids including the 20,000 liters or so of Iterlene.
	No spills kits in areas of hazardous liquids	On-going – the Contractor has finally purchased the kits – but the HSE Manager keeps them in his office as he thinks they will be stolen. This completely defeats the objective of purchasing these kits if they are nowhere near locations where spills occur and nobody is trained in their use or requirement.
Vehicle Washing	Hardstanding areas for vehicle washing is not working	On-going – the Contractors HSE Manager firmly believes that this area

	properly	functions properly. He has been told multiple times that it does not.
	Vehicle washing is occurring in the wrong areas	On-going – the EHSM noted that Contractors vehicles are being washed outside of the camp.
Health and Safety	There is a lack of fire extinguishers at the camp	On-going – a spot check of fire fighting equipment indicated that many fire extinguishers have low pressure, or are totally absent from areas like maintenance yards and accommodation blocks. This is considered strange given that the Contractor reports that his HSE team inspect the fire safety equipment on a weekly basis.
	PPE is not always used by staff	On-going – and will be for the remainder of the contract.
Asphalt Plant	The is no bunding in the asphalt plant – the Contractor was warned about this issue in December 2015 and that it needed to be addressed before the plant became operational	On-going – portions of the asphalt plant have been bunded, but then for some reason other portions are not bunded rendering the existing bund pointless.
Waste	Waste containers are not provided at all construction sites	On-going – The Contractor was supposed to purchase containers for the maintenance yard. This has not yet happened.

37. **Table 6** provides a summary of the Contractors progress with the items identified during the last site visit.

Table 6: Non-compliance Items Noted by the Previous Bi-annual Report (no.3)

Item	Comment	Action	Responsibility	December 2015 Status	June 2015 Follow-up
1. Instrumental Monitoring	a. Noise monitoring should be undertaken at selected locations on a bi-monthly basis. In addition, air quality monitoring should be undertaken at the same time intervals instead of annually.	As per ADB comment	1. Kolin will provide quotes for the monitoring costs and provide them to ADB.	IN-PROGRESS 1. Kolin to provide quotes IRD by 21/12/15	IN-PROGRESS 1. No quote for additional monitoring has been provided by Kolin
2. Reports	a. Kolin have to prepare and submit monthly reports to the Engineer. They have not been doing this, or preparing any form of weekly or daily checklists.	ADB stated that each day the Contractor should be inspecting the camp and the entire road for any non-conformance. Weekly checklists should then be completed and monthly reports prepared and submitted to IRD.	1. Kolin HSE Team to undertake daily inspections 2. Weekly Checklists to be completed by Kolin HSE Team and submitted to IRD 3. Monthly reports completed by Kolin HSE Team and submitted to IRD.	IN-PROGRESS 1. The first monthly report has been prepared (Submitted 4 th Jan, 2016).	IN-PROGRESS 1. A second report was submitted for January, 2016, but there have been no further monthly reports.
3. Training	a. The ADB will work with Kolin and IRD to improve training, especially in waste management and health and safety.	ADB local environmental specialist will make visits to Kolin camp to help improve the training program.	ADB and Kolin to discuss a program	OPEN	OPEN

	b. There need to be more on-site training in issues such as PPE, etc.	More toolbox training on site is required and should be delivered on a regular basis by the Kolin HSE Team environmental specialist.	1. Kolin HSE Team to provide regular toolbox training and to keep a record of these activities. 2. IRD to regularly monitor the toolbox training to ensure Kolin HSE team is doing the training.	IN-PROGRESS 1. According to Kolin HSE Team a number of toolbox trainings were undertaken in the last week of December, however, the Engineer will continue to monitor this situation to ensure the Contractor continues with the training.	IN-PROGRESS 1. Given the fact that the HSE team are rarely observed outside of their office, toolbox trainings are assumed not to be occurring on a regular basis, if at all.
4. Maintenance Yard	a. Waste storage needs to be improved.	1. More waste containers need to be provided. 2. Waste containers need to be emptied on a regular basis to ensure they are not overflowing.	1. Kolin to provide more waste containers. 2. IRD to monitor waste storage to ensure waste containers are not overflowing.	IN-PROGRESS 1. Kolin stated that they would order more waste containers for this area – However, to date the only evidence of additional waste containers are some empty 200 liter oil drums outside the yard. The Contractor was specifically requested to ensure larger bins were put in this area to accommodate the high volumes of waste generated in this area.	IN-PROGRESS 1. No further actions from the Contractor
	b. No spill prevention measures are provided in the maintenance yard.	1. Spill kits need to be provided in the yard. 2. Training in the use of spill kits needs to be provided.	1. Kolin to install spill kits. 2. Kolin HSE team to provide training in the use of spill kits	IN-PROGRESS 1. Kolin have ordered 5 spill kits, but have yet to be delivered.	IN-PROGRESS 1. The Contractor has finally purchased the kits – but the HSE Manager keeps them in his office as he thinks they will be stolen.

	c. Storage of fuel should be in suitable containers, not used water bottles.	Fuel shall not be stored in used water bottles	Kolin to remove all water bottles for fuel storage and replace with appropriate containers.	IN-PROGRESS 1. 20 liter fuel cans ordered for use in the maintenance yard, but still not delivered.	IN-PROGRESS 1. No cans were observed in the maintenance yard.
	d. All remaining areas around the maintenance yard should be gravelled to stop the area becoming a mud bath during the autumn and winter.	1. Gravel to be placed across maintenance yard.	Kolin Maintenance Yard Manager	IN-PROGRESS	CLOSED 1. Hardstanding laid.
	e. More fire extinguishers are required in this area	Placement of more fire extinguishers in the maintenance area.	Kolin Maintenance Yard Manager	IN-PROGRESS 1. Five additional fire extinguishers have been ordered, but still not delivered.	ON-GOING 1. A spot check of fire fighting equipment indicated that many fire extinguishers have low pressure, or are totally absent from areas like maintenance yards and accommodation blocks.
5. Vehicle Washing Area	a. Waste water is not running off into the wash pit.	Concrete lips should be provided around the whole wash bay to ensure that run-off enters the wash pit, not areas adjacent to the wash pit.	Kolin HSE Team	IN-PROGRESS 1. Kolin have laid more concrete with bunding, but monitoring of the area is still required by the Engineer to ensure it functions correctly.	OPEN 1. The wash bay still does not function properly.

6. Waste Management	a. There are no records of waste collection (types and volumes) from the site.	Kolin shall keep and up to date record of waste volumes and types leaving the site and report these findings in the monthly report to IRD.	Kolin HSE Team	IN-PROGRESS 1. Kolin have provided data for September, October and November which is presented in their December monthly report.	CLOSED 1. Data provided in Quarterly reports.
7. Health and Safety	a. No harnesses were being used by workers working at heights on bridges.	Harnesses should be used at all areas where working at height is undertaken, e.g. bridges.	1. Kolin to ensure workers are provided with the right equipment at these sites. 2. Kolin HSE Team to provide training to workers.	OPEN 1. Kolin must provide harnesses for workers and training in their use.	ON-GOING
8. Concrete batching	a. The drying pit for sludge and water from concrete batching yard is too small and water does not evaporate quickly enough from the pit.	A larger drying pit for the concrete wash out from the mixers should be constructed next to the batching yard.	1. IRD will provide potential solutions for a larger pit. 2. Kolin to construct the pit.	IN-PROGRESS	CLOSED 1. No pit has been constructed. However, the pit is no longer deemed necessary for two reasons: a. water quality tests at the site have not revealed waste water from this area to be contaminating water. b. The volume of concrete batching has reduced now that bridge and culvert works are nearing completion.

9. Bunding	a. The fuel storage next to the generators close to the rock crushing area should be bunded.	Construct bunds for these fuel tanks	Kolin HSE Team	IN-PROGRESS 1. Kolin have installed possibly the worst, and most pointless bund in this location. This needs to be constructed as instructed by the Engineer.	IN-PROGRESS 1. The bund now also has a hole in it.
	b. Plasticizers at the concrete batching area should be kept in bunded areas.	Construct bunds for the plasticizers	Kolin HSE Team	IN-PROGRESS 1. Kolin have constructed another pointless bund that is in no way capable of containing any spill, or leak.	IN-PROGRESS 1. No changes to the bund size.
10. Concrete Batching	a. Dust from the ramp up to the aggregate bins is blowing over the construction camp.	A fence needs to be constructed on the ramp and around the aggregate bins to reduce impacts of wind blown dust on the accommodation and office blocks.	Kolin to construct fence	IN-PROGRESS 1. Kolin have installed a fence, but it is made from nylon, as such it may not be very durable. The Engineer will monitor the suitability of this material for its purpose.	CLOSED
11. Rock crushing	a. Materials falling from conveyor belts is a safety hazard.	Signs should be placed to prevent workers walking under conveyor belts.	Kolin HSE Team	IN-PROGRESS 1. Kolin have installed signs, but they are a long way from the conveyor belts.	IN-PROGRESS 1. Signs are absent, or in wrong locations
	b. High levels of dust are being generated at the rock crushing plant.	The water sprinkling system should be operational.	Kolin HSE Team	OPEN 1. Kolin need to prepare a plan to deal with the dust	OPEN 1. No plan produced to date.

				issue.	
12. Asphalt plant	a. Dust from conveyor belts	Conveyors need to be covered	Kolin HSE Team	OPEN	OPEN 1. No action on this task to date
	b. Spills and leaks from liquids.	Bunding needs to be placed around all liquid storage areas of the plant.	Kolin HSE Team	OPEN	IN-PROGRESS 1. Portions of the asphalt plant have been bunded, but then for some reason other portions are not bunded rendering the existing bund pointless.
13. Maintenance yard	a. spills and leaks of fuel and liquids from the new maintenance yard into a drainage ditch.	Bunding needs to be placed around the new maintenance yard area.	Kolin HSE Team	OPEN 1. No bunding yet constructed.	IN-PROGRESS 1. Bunding only partially constructed.

38. **Table 7** provides a summary of the non-compliance issues noted during Junes site visit.

Table 7: Non-compliance Items Noted in June Site Visit

Item	Comment	Action	Responsibility	Schedule
1. Bunding	Cracks have started to appear in some older bunds. In addition bunds also now appear to have holes in them (see Appendix I for photos). New un-bunded fuel storage tanks have appeared in some location. In addition, bunding has started around the asphalt plant, but it is incomplete. Finally, the bunding at the concrete batching plant needs to be made suitable for the size of drums it contains.	<p>1. Cracks should be sealed.</p> <p>2. All fuel storage tanks should be bunded.</p> <p>3. Suitable bunds shall be constructed for plasticisers at the concrete batching yard.</p> <p>4. Bunding at the asphalt plant should be completed in all relevant locations.</p>	Items 1-4: Kolin HSE Team	15/07/16
2. Vehicle Refueling	As noted in the previous bi-annual report, rehabilitation of this area had occurred. However, it was noted that the sump which collects the run-off from the fuelling area was full during the site visit (see Appendix I for photos) – any additional rainfall will result in the sump overflowing and contaminating the soils and groundwater around this area. A hole in the bund of the fuelling area has again appeared. This needs to be filled. In addition, training needs to be provided to staff who use this area in the methods to keep this area clean and tidy.	<p>1. Regular emptying of the sump to ensure it does not overflow.</p> <p>2. Fill bund holes.</p> <p>3. Training for staff in the use and management of the vehicle fuelling area.</p>	Items 1-3: Kolin HSE Team	<p>Item 1: As and when required</p> <p>Item 2: 08/07/16</p> <p>Item 3: 15/07/16</p>
3. Storage of Hazardous Chemicals	Approximately 50 tonnes of Kraton (a polymer used in asphalt) is currently stored in the asphalt plant	1. All hazardous materials and liquids need to be stored	Items 1-5: Kolin HSE	Item 1: 15/07/16

	<p>area – this chemical is a fire and explosion hazard. There are no warning signs relating to this chemical. The Contractors HSE Manager did not know where this chemical was, or what its hazardous properties were and did not have a copy of its material safety data sheet (MSDS). In addition, around 20,000 liters of Iterlene (a chemical also used in asphalt production) is also stored in this area. The label on the containers states that this liquid is corrosive and toxic. However, the Contractors HSE manager had no knowledge of this chemical, its properties, or a copy of its MSDS.</p>	<p>according to their MSDS – this includes bunding on hardstanding for hazardous liquids.</p> <p>2. Training in the correct use of these items needs to be provided to staff, including application of PPE.</p> <p>3. MSDS must be kept with the materials and in the site office.</p> <p>4. Safety signs need to be provided in the storage locations of these materials indicating, for example, their potentially explosive properties.</p> <p>5. The Contractors HSE team should be aware of all times of the amount and types of hazardous materials at site. They also need to know how to manage these materials in the event of an emergency.</p>	Team	<p>Item 2: 08/07/16</p> <p>Item 3: 01/07/16</p> <p>Item 4: 15/07/16</p> <p>Item 5: 01/07/16</p>
4. Overloaded Trucks	<p>Most of the vehicles transporting construction materials (rock, sand, etc.) are overloaded. A quick inspection at one weigh-bridge noted four axle vehicles carrying between 37 and 39 tonnes, five to seven tonnes over international best practice standards.</p>	<p>1. Vehicles should not be overloaded</p>	Item 1: Kolin HSE Team	Item 1: 01/07/16
5. Water Bowsers	<p>There are not enough water bowsers in operation</p>	<p>1. Ensure water bowsers are</p>	Items 1-2:	Item 1:

	on the road. Appendix I illustrates the levels of dust being created on access roads by Contractors vehicles. In addition, it is noted that some of the Contractors vehicles avoid driving in newly dampened areas to avoid their vehicles getting dirty.	operating in all construction zones on a regular basis 2. Tool-box training from drivers on the need to drive in the areas recently sprayed.	Kolin HSE Team	01/07/16 Item 2: 08/07/16
6. Maintenance Yard	Improvements have been made in this area, however key issues include; 1) lack of fire fighting equipment; 2) no suitable 20 liter fuel containers; 3) no spill kits in place; 4) no bunding in the areas at the rear of covered maintenance units; and 5) maintenance still occurring on open ground which will lead to contaminated site run-off water.	1. Provide suitable fire fighting equipment. 2. Provide fuel storage cans. 3. Place spill kits in the correct locations. 4. Provide bunding in the maintenance areas. 5. Ensure maintenance occurs in the correct areas / contain and clean-up spills.	Items 1-5: Kolin HSE Team	Item 1: 01/07/16 Item 2: 15/07/16 Item 3: 01/07/16 Item 4: 08/07/16 Item 5: 01/07/16
7. Rock crushing	The rock crushing plant still generates large quantities of dust. The Contractor has working water sprays in place, but does not use them as he states that the wet materials are not suitable for the asphalt plant.	1. Develop a method statement to control dust from the plant without the use of water spraying, e.g. covering conveyors.	Item 1: Kolin HSE Team	Item 1: 08/07/16
8. Asphalt Plant	Multiple issues exist with the asphalt plant, some of which have been discussed above such as the lack of bunding and the storage of hazardous chemicals. Another significant issue in this area is dust. Multiple sources of dust are emitted from the plant. In addition there are no covers on conveyors	1. Develop a method statement to control dust from the asphalt plant without the use of water spraying, e.g. covering conveyors, etc.	Item 1: Kolin HSE Team	Item 1: 08/07/16

	or around weigh hoppers (see Appendix I).			
9. Health and Safety	Health and safety continues to be a great concern around the camp and work site. Children were noted on road embankments close to work sites. At the camp workers were noted in conveyor belts at the rock crusher and in weigh hoppers for the asphalt plant. Hardly any of the workers at the construction camp wear any form of PPE. In addition, fire fighting equipment is non-existent in some locations, including accommodation blocks and the maintenance yard.	<p>1. The Contractors HSE team should continuously monitor the construction sites to ensure that there are no children in these areas.</p> <p>2. Suitable fire-fighting equipment, in working order, needs to be provided across the camp.</p>	Item 1-2: Kolin HSE Team	<p>Item 1: from 01/07/16</p> <p>Item 2: 08/07/16</p>
10. Waste Management	This is still patchy across the site.	1. The Contractor should continuously monitor this situation and ensure that there are adequate amounts of storage containers in the correct locations, e.g. maintenance yard.	Item 1: Kolin HSE Team	Item 1: from 01/07/16

E. Training

39. During the present reporting period several EHS training sessions were undertaken as outlined in **Table 8**. The number of participants in the training program is clearly not good enough, and this is evident by the poor environmental, health and safety performance of the Contractors staff.

40. There is still no evidence that the Contractors HSE team have performed any tool-box training. As stated many times to the Contractor, this would be beneficial in areas such as waste management and PPE, where the Contractors staff obviously have no idea of what this means.

Table 8: Training Sessions

Type of Training	Date	No. of Participants
Construction Safety	30 th January, 2016	10
Fire Fighting	26 th February, 2016	13
Control of Substances Hazardous to Health	11 th March, 2016	5
Training based on Management of Safety on Traffic	30 th April, 2016	6
Trainings based on Protection from AIDS/HIV and Types of Fire Extinguishers and Their Usage Rules	26 th May, 2016	6
Spill Kit Use	20 th June, 2016	8

F. Community Meetings and Grievances

41. During the present reporting period public meetings were held on the following dates and locations.

- Khil Village, Masalli District – 29th January, 2016 (8 Participants)
- Goyechol Village, Masalli District – 29th February, 2016 (15 Participants)
- Musakuche Village, Masalli District – 11th March, 2016 (10 Participants)
- Huseynhajili Village, Masalli District – 29th April, 2016 (14 Participants)
- Kichik Samidkhan Village, Masalli District – 27th May, 2016 (10 Participants)
- Sharafa village, Masalli District – 28th June, 2016 (8 participants)

42. The list of participants is provided in **Annex C**, and photos of one of the meetings are shown in **Annex D**.

43. A summary of all issues raised during the meetings and all grievances to date and how they were resolved is provided in **Table 9** below. From the table it is clear to see that the public

meetings are not being taken too seriously by the Contractor – some of the replies to the questions are not sufficient, e.g. *“Nowadays the weather either rainy, or dry. But we will operate our water trucks very soon.”* This type of answer means nothing to the community members participating in the meetings. It would be better to take a note of the locations and ensure that regular watering of this location is undertaken. From this point forward, the Engineers EHSM will participate in all community meeting held by the Contractor to ensure accurate reporting of the issues. The EHSM will then report the findings of the meetings directly to the Engineers Resident Engineer and IES for further actions. Unfortunately this seems like another case of the Contractor failing to fulfill his obligations. Ultimately this means that the Engineer has to take on more tasks that are essentially a responsibility of the Contractor (e.g. the environmental checklists).

Table 9: Grievance Register

No	Location	Date Received	How grievance was received	Plaintiff	Description of the issues/complaints	Notes, undertaken actions
1	Khil Village, Masalli Region	29 th January, 2016	Meeting	Karbiyev Zakariyya	Sometimes trucks belonging to your company get into my land parcel and unload remains of concrete and earth.	There are rented and Kolin trucks working at the job-site. Please, take a note of the plate number or a photo of a truck which pollutes your area and inform us immediately. We will be involved to investigate this issue and you will be compensated. Please, visit our camp office and approach to HSE department with your evidence. We will inspect the area with inspectors of the department and cause to clean it.
2	Goyechol Village, Masalli Region	29 th February, 2016	Meeting	Sakhavat Baghirov	30 ha share lands of nearly 20 Goyachol village residents interfere with new road on the opposite side (near Bridge D30). Residents expressed their need for a crossing (in 4.5x6 m in size) to move their equipment to these areas.	As this issue regards to the Project design, this request will be passed to Azeravtoyol OJSC.
3	Goyechol Village, Masalli Region	29 th February, 2016	Meeting	Asadov Beybala	Trucks make dust on the roads. Our lands and people suffer from dust.	The Contractor expressed their apologies for this inconvenience and explained that when the weather is very hot and dry they try to manage dust control by operating water trucks. It takes some time for trucks to make trips to bring water when the distance is far.

No	Location	Date Received	How grievance was received	Plaintiff	Description of the issues/complaints	Notes, undertaken actions
4	Musakuche Village, Masalli Region	11 th March, 2016	Meeting	Agayev Reis	We need a vehicle crossing.	Sometimes it is very hard to make a change in the project design due to the geometry of the area and approved budget. And there was an intersection considered for construction near Musakuche village.
5	Musakuche Village, Masalli District	11 th March, 2016	Meeting	Mirzayev Alakbar	Roadside are full of earth and mud piles from Bridge D28 till Bridge D29.	The Contractor expressed their apologies for this inconvenience by reiterating and explained that such kind of problems may happen during construction works. We assure you that we will solve this problem as soon as the weather becomes suitable.
6	Musakuche Village, Masalli District	11 th March, 2016	Meeting	Qulamov Sureddin	I could not get the reimbursement for my land clashing the road.	The payments will be done soon.
7	Musakuche Village, Masalli District	11 th March, 2016	Meeting	Tagiyev Ruhulla	I have a restaurant on the road of Huseynhajili village towards Bridge D29. It becomes dusty on the road during transportation and restaurant loses its activeness. Clients do not visit my restaurant.	The Contractor expressed their apologies for this inconvenience by reiterating and explained that such kind of problems may happen during construction works. We assure you that we will solve this problem by allocating water trucks.
8	Huseynhajili Village	29 th April, 2016	Meeting	Abbasov Jankishi	We want an animal cross 4m x 2.5 m near the Bridge No. 28.	We will pass this information to the consulting company (IRD) and Azeravtoyol OJSC.

No	Location	Date Received	How grievance was received	Plaintiff	Description of the issues/complaints	Notes, undertaken actions
9	Huseynhajili Village	29 th April, 2016	Meeting	Shukurov Faramaz	We would like to have some road smoothing near the Bridge D28.	Kolin company will implement this request very soon.
10	Kichik Samidkhan Village	27 th May, 2016	Meeting	Rahmanov Farhad	We want to use 200 m part of service road which is situated on the left shoulder (towards Baku) right near the Tunnel 27 of new highway. There is 2 ha share land of our village on the other side of the channel.	Your request will be addressed to the consulting company (IRD) and Azeravtoyol OJSC and you will be informed about the final decision.
11	Kichik Samidkhan Village	27 th May, 2016	Meeting	Akbarov Alakbar	We ask you for installation of 1000 mm pipe for the water flow in the conjunction of your service road and the channel of our village.	Your request will be investigated on the Site implementation will be soon within the project opportunities.
12	Sharafa Village	28 th June, 2016	Meeting	Ziyadov Alimammad	The culvert height near the Bridge D25 is higher than the level of agricultural lands around it for about 60 cm. We think this condition can lead to the flooding of our lands.	The height and design of the culverts and bridges are calculated by technical engineers. We will ask our engineers to monitor the mentioned area. As soon as we get the feedback from them we will inform you.

No	Location	Date Received	How grievance was received	Plaintiff	Description of the issues/complaints	Notes, undertaken actions
13	Sharafa Village	28 th June, 2016	Meeting	Ahadov Agamirza	We had a discussion with representatives of Azeravtoyol and IRD on the provision of the entering road to our agricultural lands at the right side of new Highway. We proposed to provide a road along the bridge 25 (parallel to the village road in direction to the Bridge 25) and along the new Highway.	The provision of the new parallel road along the village road and Highway may require additional land acquisition. But the representtavis of IRD company are here and they can discuss it with Azeravtoyol. We will inform you as soo as we get any information on this issue.

G. Emerging Issues

44. An item to keep an eye on as construction progresses is the status of culverts, specifically the suitability of the wing-walls, which in some locations appear to be too small to prevent embankment material overtopping them (see **Appendix I**) and silting up the culverts which over time may reduce their capacity and lead to localised flooding. In addition, it was noted at km113 that an electricity transmission line is quite close to the top of the road embankment (see **Appendix I**). According to the Engineer, the design SNIP the minimum height for transmission lines above a road is 8 meters and the current height between the road and the transmission lines is 8.6 meters. It is recommended that the Engineer double check the actual heights once the pavement construction is completed.

H. Conclusions

45. The Contractor and his HSE staff continue to grapple with the concept of environmental management, wherever an improvement has been made another two negative issues arise, a case of one step forward and two steps back. The HSE team are not proactive enough around the camp site and on the road and as such they only seem to respond to issues after the event or IES has made a visit, or when a letter has been written to the Contractor outlining his non-compliance. The HSE team has to be more proactive and regularly inspect the site to see how and where issues are arising. This includes the HSE Manager who needs to be on site on a regular basis to help guide and train his junior staff. More specifically, the Contractor needs to correct the following issues:

- Complete all of the outstanding non-compliance items listed in Tables 5, 6 & 7, including a method statement for the control of dust.
- Ensure all permits, contracts and licenses are up to date.
- Provide monthly reports on a monthly basis.
- Update the spills response plan.
- Take the community meetings more seriously – the Engineer will be accompanying the Contractor to these meeting so assess how they are managed.
- Be more proactive with his training, including regular tool-box training sessions.

IV. ANNEXES

ANNEX A: SEMP STATUS

Document Ref #	Item	Status
MJ- HSE- 002	Site Environmental Management Plan	Approved by Engineer
MJ- HSE- 005	Waste Management Plan	Approved by Engineer
MJ- HSE- 007	Sewage management plan	Approved by Engineer
N/A	Health and Safety plan and Accident Book	Approved by Engineer
MJ- HSE- 004	Soil management plan (including topsoil and vegetation)	Approved by Engineer
MJ- HSE- 0012	Site drainage plan	Approved by Engineer
MJ-MS-014	Method statement on spillages	Approved by Engineer
MJ-MS-013	Statement on location of fuel storage, filling station and vehicle washing site	Approved by Engineer
MJ- HSE- 001	Traffic management plan	Approved by Engineer
MJ-HSE-0010	Noise control plan	Approved by Engineer
MJ-HSE-009	Air pollution control plan	Approved by Engineer
MJ-HSE-008	Dust control plan	Approved by Engineer
MJ-HSE-0011	Cultural/archaeological find plan	Approved by Engineer

ANNEX B: PERMITS

Location	Permit / Permission	Date Obtained	Update / Action
Construction Camp	Land Acquisition Contract	19.03.2014	None for three years
	Land use Approval	08.04.2014	None (obtained once)
	Eco. Expertise Approval	17.04.2014	None (obtained once)
	Ecological Passport	17.04.2014	None for five years
	Contract for Waste disposal	01.01.2015	Update required 31.12.2015
	Contract-Sewage disposal	01.01.2015	Update required 31.12.2015
Concrete Plant	Eco. Expertise Approval	17.04.2014	None (obtained once)
	Ecological Passport	17.04.2014	None for three years
	Limits of Emissions to the Atmosphere	17.04.2014	None for three years
Asphalt Plant	Eco. Expertise Approval	17.04.2014	None (obtained once)
	Ecological Passport	17.04.2014	None for three years
	Limits of Emissions to the Atmosphere	17.04.2014	None for three years

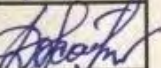
Stone Crushing Plant	Eco. Expertise Approval	17.04.2014	None (obtained once)
	Ecological Passport	17.04.2014	None for three years
Borrow Pit	Land Acquisition	24.02.2014	None for five years
	Eco. Expertise Approval	09.04.2014	None (obtained once)
	Ecological Passport	09.04.2014	None for five years
	Limits of Emissions to the Atmosphere	09.04.2014	None for three years

ANNEX C: LIST OF PERSONS CONSULTED

İCMA GÖRÜŞÜ (Community Meeting)

KƏNDİN ADI (VILLAGE) : **Şərəfa**

TARİX (DATE): **28/06/2016**

	ADI, SOYADI, ATASININ ADI	TELEFON NÖMRƏSİ	Şəxsiyyət vəsiqəsinin seria nömrəsi	İMZA
	Name, Surname, Father Name	Phone Number	Seriya NO	Signature
1.	İsmayılov Cəbi	050.340.11.61	04348327	
2.	Seyfullayev Elman	070-516-77-06	04951816	
3.	Qasimov Nohat	0508646883	04026419	
4.	Əbdulov Ağamirzə	051644-21-86	06956537	
5.	Cəfərov Əli	050-521-04-53	01759590	
6.	Əliyev Əliməmməd	050222-19-47		
7.	Əliyev Cavid	050-522-32-05	09802908	
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				

ANNEX D: CONSULTATION PHOTOS



Sharafa village, 28th June, 2016

ANNEX E:
WATER QUALITY MONITORING RESULTS

No	Components	Measurement Unit	Location 1	Location 2	Location 3	Location 4	Norms accepted in Azerbaijan
1.	Dissolved Oxygen	mq/l	7.1	7.3	7.0	7.1	≥4.0
		%	74.2	75.1	74.0	74.2	
2.	pH		8.2	8.1	8.1	8.4	6.5-8.5
3.	Suspended Solids	mq/l	24.0	12.0	21.0	18.0	-
4.	Conductivity	X10 ⁻³ Sm/sm	0.897	0.873	0.881	0.865	-
5.	COD	mq/l	10.0	10.0	9.7	10.0	10.0
6.	Nitrate (NO3	mq/l	3.36	2.98	3.1	3.3	45.0
7.	Phosphate (PO4)	mq/l	0.99	0.8	0.8	0.8	3.0
8.	Oil Grease	mq/l	0.04	0.04	0.03	0.05	0,05
9.	Fecal Coliforms:						
	Amount of bakteria group	part/litr	8521	7695	10210	9586	10 000
	E.coli	part/litr	2354	3001	3562	2895	5000

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 19 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>15:16</u>	<u>15:31</u>	<u>15min</u>	<u>0,7 m/s</u>	<u>3,19</u>	<u>7,69</u>	
					<u>0,834</u>	<u>2,51</u>	
Average for the sampling point							

Sample Ref ## 1 Sampling Location Uzuntapa

Coordinates X 08809722 Y 04349611 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t=10°C

Site Description, Plant and equipment operation status

In front of school in Uzuntapa (Jalilabad district)

Dust from moving truck's

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 19 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>16:15</u>	<u>16:30</u>	<u>15 min</u>	<u>1.2 m/s</u>	<u>2.11</u>	<u>6.79</u>	
Average for the sampling point					<u>0.734</u>	<u>2.41</u>	

Sample Ref ## 2 Sampling Location Kazimabad village

Coordinates X 028814889 Y 04339794 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 3°C

Site Description, Plant and equipment operation status

The nearest house in Kazimabad village to construction at Bridge N17
Dust from construction activities at Bridge N17 and moving truck's

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 19 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>16:43</u>	<u>16:58</u>	<u>15 min</u>	<u>1.4 m/s</u>	<u>2.84</u>	<u>9.12</u>	
					<u>0.993</u>	<u>3.78</u>	
Average for the sampling point							

Sample Ref ## 3 Sampling Location Station Tekle

Coordinates X 02815949 Y 04337677 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Site Description, Plant and equipment operation status

The nearest exposed location "Shir-Shir" restaurant to construction activities at Bridge N19, Station Tekle.
Dust from construction activities at Bridge N19 and moving trucks

Sampling point location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>19</u> day <u>12</u> month <u>2015</u> year							
Sample #	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>17:17</u>	<u>17:32</u>	<u>15 min</u>	<u>1.12 m/s</u>	<u>1.98</u>	<u>7.64</u>	
					<u>0.829</u>	<u>2.83</u>	
Average for the sampling point							
Sample Ref ## <u>4</u> Sampling Location <u>Chakhirli village</u>							
Coordinates <u>X08817553</u> <u>Y04335721</u> (GPS Projection) <u>UTM</u>							
Weather condition (precipitation, cloudiness, air temperature, etc.) <u>sunny, T=8.4°C</u>							
Site Description, Plant and equipment operation status <u>The nearest house in Chakhirli village to the construction activities at Bridge N21</u> <u>Dust from construction activities and moving trucks</u>							
Sampling point location sketch							
<p>The sketch shows a horizontal line representing a 'road'. Below the road, on the left, is a vertical line labeled 'activity'. To the right of the activity is a stick figure representing a person. Further to the right is a square labeled 'house'.</p>							
Comments							
Person responsible for Sampling Signature <u>Emil Avazov</u>							

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>19</u> day <u>12</u> month <u>2015</u> year							
Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>17:50</u>	<u>18:05</u>	<u>15 min</u>	<u>0,8 m/s</u>	<u>2,34</u>	<u>8,68</u>	
Average for the sampling point					<u>1,02</u>	<u>3,21</u>	

Sample Ref ## 5 Sampling Location Balatexle village.

Coordinates X 08819684 Y 04333509 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)
Sunny, t = 7,6°C

Site Description, Plant and equipment operation status
The greenhouse nearest to construction activities at
Bridge N23 in Balatexle village.
Dust from construction activities and moving
truck's

Samplingpoint location sketch

The sketch shows a horizontal line representing a 'road'. To the left of the road, there is a vertical line labeled 'activity'. To the right of the road, there is a stick figure and a square labeled 'green house'.

Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 20 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>10:00</u>	<u>10:15</u>	<u>15min</u>	<u>0,94m/s</u>	<u>4,15</u>	<u>10,14</u>	
Average for the sampling point					<u>1,02</u>	<u>4,09</u>	

Sample Ref ## 6 Sampling Location Small Samitkhan village

Coordinates X 02819968 Y 04329662 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 10,4°C

Site Description, Plant and equipment operation status

The nearest house in Small Samitkhan village to the
construction activities at Bridge N2E
Dust from construction activities and moving
trucks

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 20 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>10:25</u>	<u>10:40</u>	<u>15min</u>	<u>1,12m/s</u>	<u>3,26</u>	<u>7,15</u>	
Average for the sampling point					<u>0,846</u>	<u>3,24</u>	

Sample Ref ## 7 Sampling Location Samitkhan village

Coordinates X 08819713 Y 04330768 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 10,7°C

Site Description, Plant and equipment operation status

The nearest house to construction activities at
Bridge N26 in Samitkhan village
Dust from construction activities and
moving truck's

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 20 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>11:00</u>	<u>11:15</u>	<u>15min</u>	<u>1,02m/s</u>	<u>3,41</u>	<u>8,04</u>	
Average for the sampling point					<u>0,26</u>	<u>3,76</u>	

Sample Ref ## 8 Sampling Location "Kolin" camp

Coordinates X 08825620 Y 04322568 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

sunny, t = 11,3°C

Site Description, Plant and equipment operation status

The nearest Dormitory to the Crashing Plant


Activities in Crashing Plant

Sampling point location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov 

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 20 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>11:25</u>	<u>11:40</u>	<u>15min</u>	<u>1,14m/s</u>	<u>2,38</u>	<u>6,47</u>	
Average for the sampling point					<u>0,831</u>	<u>2,16</u>	

Sample Ref ## 3 Sampling Location "Kolin" Camp

Coordinates X 08825697 Y 04322690 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 11.8°C

Site Description, Plant and equipment operation status

The nearest office (TRD office) to the Crashing Plant

Dust from activities in Crashing Plant

Sampling point location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 20 day 12 month 2015 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>11:45</u>	<u>12:00</u>	<u>15min</u>	<u>0,84m/s</u>	<u>2,76</u>	<u>7,01</u>	
Average for the sampling point					<u>1,02</u>	<u>2,48</u>	

Sample Ref ## 10 Sampling Location "Kolin" Camp.

Coordinates X 08825593 Y 04322825 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 11,5°C

Site Description, Plant and equipment operation status

The nearest workshop to the Crashing Plant

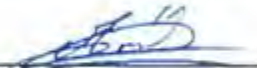
Dust from Crashing Plant and moving truck's

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov 

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 22 day 06 month 2016 year

Sample #	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>13:20</u>	<u>13:35</u>	<u>15min</u>	<u>0,76m/s</u>	<u>3,12</u>	<u>7,84</u>	
Average for the sampling point					<u>1,71</u>	<u>3,46</u>	

Sample Ref ## 10 Sampling Location "Kolin" Camp

Coordinates X08825583 Y 04322825 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 31,5°C

Site Description: Plant and equipment operation status

The nearest workshop to the Crashing Plant
Dust from Crashing Plant and moving trucks

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emit Avarov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 22 day 06 month 2016 year

Sample ##	Start time	End Time	Duration	Wind speed	PM 2.5	Reading PM 10	PM sum)
<u>1</u>	<u>12:55</u>	<u>13:10</u>	<u>15min</u>	<u>1,04m/s</u>	<u>2,51</u>	<u>7,36</u>	

Average for the sampling point 1,15 2,97

Sample Ref ## 9 Sampling Location "Kolin" Camp

Coordinates X 08825697 Y 04322680 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

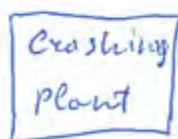
Sunny, t = 31,3°C

Site Description, Plant and equipment operation status

The nearest office (TRD) to the Crashing Plant

Dust from activities in Crashing Plant.

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Hvarov

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>22</u> day <u>06</u> month <u>2016</u> year							
Sample #	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>12:30</u>	<u>12:45</u>	<u>15 min</u>	<u>0,83 m/s</u>	<u>3,56</u>	<u>8,47</u>	
Average for the sampling point					<u>1,43</u>	<u>4,01</u>	


Sample Ref ## 8 Sampling Location "Kolin" camp.

Coordinates X 08825620 Y 04322368 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)
Sunny, t = 30,8°C

Site Description, Plant and equipment operation status
The nearest Dormitory to the crashing Plant
Dust from activities in Crashing Plant

Sampling point location sketch



Comments

Person responsible for Sampling
 Signature Emil Avazov

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>22</u> day <u>06</u> month <u>2016</u> year							
Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>11:40</u>	<u>11:55</u>	<u>15min</u>	<u>1,32m/s</u>	<u>3,39</u>	<u>3,12</u>	
Average for the sampling point					<u>1,26</u>	<u>4,39</u>	

Sample Ref ## 7 Sampling Location Samitkhon village

Coordinates X08819713 Y04330768 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)
Sunny, t = 29,4°C

Site Description, Plant and equipment operation status
The nearest house to construction activities at
Bridge N26 in Samitkhon village
Dust from construction activities and moving
trucks.

Samplingpoint location sketch

Comments

Person responsible for Sampling
 Signature Eril Avazov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 22 day 06 month 2016 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>11:05</u>	<u>11:20</u>	<u>15</u>	<u>0,89m/s</u>	<u>3,87</u>	<u>9,76</u>	
Average for the sampling point					<u>1,36</u>	<u>4,27</u>	

Sample Ref ## 6 Sampling Location Small Samitkhan village

Coordinates X 08819968 Y 04329662 (GPS Projection) UTM

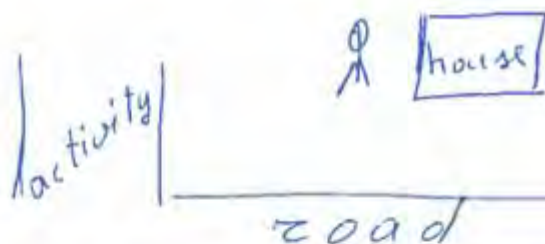
Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 28,3°C

Site Description, Plant and equipment operation status

The nearest house in Small Samitkhan village to the construction activities at Bridge N27
Dust from construction activities and moving trucks

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Avozov

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>22</u> day <u>06</u> month <u>2016</u> year							
Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>10:30</u>	<u>10:45</u>	<u>15 min</u>	<u>1,14 m/s</u>	<u>2,56</u>	<u>8,14</u>	
Average for the sampling point					<u>1,07</u>	<u>3,49</u>	
Sample Ref ## <u>5</u> Sampling Location <u>Balatekle village</u>							
Coordinates X <u>08819684</u> Y <u>04333509</u> (GPS Projection) <u>UTM</u>							
Weather condition (precipitation, cloudiness, air temperature, etc.) <u>Sunny, t=28°C</u>							
Site Description, Plant and equipment operation status <u>The greenhouse nearest to construction activities</u> <u>out Bridge N23 in Balatekle village</u> <u>Dust from construction activities and moving</u> <u>truck's</u>							
Sampling point location sketch							
Comments							
Person responsible for Sampling Signature <u>Emil Avazov</u>							

Dust monitoring session report using active dust sampler							
The sample description <u>Activity measurement</u>							
Sampling date <u>22</u> day <u>06</u> month <u>2016</u> year							
Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>10:00</u>	<u>10:15</u>	<u>15min</u>	<u>0.85m/s</u>	<u>2.01</u>	<u>7.79</u>	
Average for the sampling point					<u>0.841</u>	<u>3.12</u>	

Sample Ref ## 4 Sampling Location Chakhirli village

Coordinates X08817553 Y04335721 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)
Sunny, t = 27.4°C

Site Description, Plant and equipment operation status
The nearest house in Chakhirli village to the
construction activities at Bridge #21
Dust from activities and moving truck's

Sampling point location sketch

Comments

Person responsible for Sampling
 Signature Emil Aourov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 22 day 06 month 2016 year

Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>09:20</u>	<u>09:35</u>	<u>15min</u>	<u>0,64m/s</u>	<u>2,68</u>	<u>8,31</u>	
Average for the sampling point					<u>0,796</u>	<u>3,44</u>	

Sample Ref ## 3 Sampling Location Station Texle

Coordinates X08815949 Y04337677 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 27,1°C

Site Description, Plant and equipment operation status

The nearest exposed location "shir-shir" restaurant to construction activities at Bridge No. 13, Station Texle.
Dust from construction activities on moving trucks

Samplingpoint location sketch



Comments

Person responsible for Sampling

Signature Emil Abozov

Dust monitoring session report using active dust sampler

The sample description Active measurement

Sampling date 22 day 06 month 2016 year

Sample #	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>08:45</u>	<u>09:00</u>	<u>15 min</u>	<u>0.76 m/s</u>	<u>2.32</u>	<u>7.12</u>	
Average for the sampling point					<u>0.796</u>	<u>2.83</u>	

Sample Ref ## 2 Sampling Location Kazimabad village

Coordinates X 08814829 Y 04339794 (GPS Projection) UTM

Weather condition (precipitation, cloudiness, air temperature, etc.)

Sunny, t = 26.4°C

Site Description, Plant and equipment operation status

The nearest house in Kazimabad village to construction at bridge N17

Dust from construction activities at Bridge N17 and moving trucks


Sampling point location sketch



Comments

Person responsible for Sampling

Signature Emil Avazov

Dust monitoring session report using active dust sampler							
The sample description <u>Active measurement</u>							
Sampling date <u>22</u> day <u>06</u> month <u>2016</u> year							
Sample ##	Start time	End Time	Duration	Wind speed	Reading		
					PM 2.5	PM 10	PM (sum)
<u>1</u>	<u>08:15</u>	<u>08:30</u>	<u>15min</u>	<u>0,56m/s</u>	<u>3,21</u>	<u>7,44</u>	
Average for the sampling point					<u>0,882</u>	<u>2,54</u>	
Sample Ref ## <u>1</u> Sampling Location <u>Uzuntapa</u>							
Coordinates X <u>08809722</u> Y <u>04349611</u> (GPS Projection) <u>UTM</u>							
Weather condition (precipitation, cloudiness, air temperature, etc.) <u>Sunny, t = 25,6°C</u>							
Site Description, Plant and equipment operation status <u>In front of school in Uzuntapa (Jalilabad district)</u> <u>Dust from moving truck's</u>							
Sampling point location sketch							
							
Comments							
Person responsible for Sampling Signature <u>Emil Aouzu</u>							

ANNEX G:

LETTERS TO CONTRACTOR (MAY, 2016)

Date: 27 May 2016
Ref: FD-KC-16-M3-MJ-0541
To: Mr. Hakan Yalçınkaya
Contractor's Representative
KOLIN CONSTRUCTION, INC.
20 Afyeddin Jelilov, Floor 17,
Baku, Azerbaijan, AZ 1025

cc: Mr. Jeyhun Yusifov
Director of PIU No. 4
AZERAVTOYOL OJSC
Block 2025, Reshid Ismayilov Street,
Bilejeri settlement, Bineqedi district, Baku,
Azerbaijan

Contract: Masalli to Jalilabad Intersection
(Ch. 142+890 to 110+700)

No. 02/2013/ICB/CW/AZE

Subject: Traffic Management at Construction
of Side Road at Bridge D19

Dear Mr. Hakan,

I have noticed during my daily inspection that local traffic using a side road near by Bridge D19 is slaloming around construction equipment that is working for the embankment construction.

The current traffic diversion at the bridge D19 is not in compliance with proposed Traffic Management Plan by the Contractor (with letter reference 170, 18 September 2014)

Flagmen are clearly not trained for their task and their instructions ignored by both of the construction workers and the public.

Therefore, you are requested to provide an adequate traffic management plan for the works at this side road as soon as possible

Until this plan is approved you should have senior

Tarix: 27 May 2016-cı il
İstinad: FD-KC-16-M3-MJ-0541
Kimə: Cb. Hakan Yalçınkaya
Podratçının Nümayəndəsi
"KOLIN İNŞAAT" A.Ş.
Afiyeddin Cəlilov küç. 20, 17-ci mərtəbə,
Bakı, Azərbaycan, AZ 1025

Surəti: Cb. Ceyhun Yusifov
4 saylı LİQ-in direktoru
"AZƏRAVTOYOL" ASC
Azərbaycan, Bakı şəhəri, Bineqedi rayonu, Bilejeri qəsəbəsi, Rəşid İsmayilov küçəsi, 2025-ci məhəllə

Müqavilə: Masallıdan Cəlilabad yol qovşağınadək
(Pk. 142+890-dan 110+700-dək)

No. 02/2013/ICB/CW/AZE

Mövzu: D19 sayılı körpüdə yan yolun tikintisi üzrə hərəkətin idarə edilməsi

Hörmətli Hakan bəy,

Mən gündəlik yoxlamam zamanı müşahidə etmişəm ki, D19 sayılı körpünün yaxınlığında yan yoldan istifadə edən yerli nəqliyyat yol yatağı tikintisi üçün işləyən avadanlığın ətrafından ziqzaqvari keçirlər.

D19 sayılı körpünün yanında nəqliyyatın hazırkı diversiyası Podratçı tərəfindən təklif edilmiş (18 sentyabr 2014-cü il, 170 sayılı məktub) hərəkətin idarə edilməsi planı ilə uyğun deyil.

Bayraqçılar öz işləri üçün aydın təlimatlandırılmır və onların təlimatları həm tikinti işçiləri həm də ictimaiyyət tərəfindən inkar edilir.

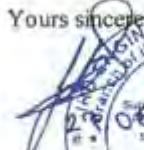
Ona görə sizdən yolun bu hissəsində işlər üçün uyğun hərəkətin idarə edilməsi planını mümkün qədər tez təqdim etməyiniz tələb olunur.

Bu plan təsdiq olunanaqədər hərəkətin idarə edilməsi

traffic management staff full time present at these works near Bridge D19 to direct operations and to safeguard the public.

I would like to underline that you are not going to be allowed to commence any works affecting public or private right of way before implementing all the necessary traffic regulation and safety measures according to the approved traffic management plan

Yours sincerely,

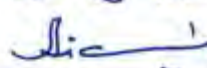

Fatih Dagtas
IRD – Team Leader
The Engineer's Representative

üzrə tam heyətiniz D19 sayılı körpü yaxınlığında əməliyyatları idarə etmək və ictimaiyyəti qorumaq üçün işlərin yanında tam ştatda iştirak etməlidir.

Mən vurğulamaq istədim ki, hərəkətin idarə edilməsinin təsdiq edilmiş planına əsasən bütün zəruri hərəkət tənzimləməsi və təhlükəsizlik tədbirlərini icra etməzdən əvvəl sizə ictimai və ya fərdi təsir göstərən hər hansı işə başlamağa icazə verilməyəcək.

Hörmətlə,


Fatih Dagtas
"IRD"-nin Özgən Rəhbəri
Mühəndisin Nümayəndəsi

Received by İkrin Abbasov

27.05.2016

Date: 11 May 2016
Ref: FD-KC-16-M3-MJ-0536
To: Mr. Hakan Yalçinkaya
Contractor's Representative
KOLIN CONSTRUCTION, INC.
20 Afiyeddin Jəlifov, Floor 17,
Baku, Azerbaijan, AZ 1025
cc: Mr. Jeyhun Yusifov
Director of PIU No.4
AZERAVTOYOL OJSC
Block 2025, Reshid Ismayilov Street,
Bilejeri settlement, Bineqedi district, Baku,
Azerbaijan
Contract: Masalli to Jalilabad Intersection
(Ch. 142+890 to 110+700)
No. 02/2013/ICB/CW/AZE
Subject: Review of Environment, Health and
Safety Quarterly Report – January-
March 2016

Dear Mr Hakan,

I refer to your letter reference Kolin/MSL/RDP/2016/565, dated 14 April 2016 and received on 14 April 2016.

I have reviewed the Kolin HSE report and find it to be inadequate. The report does not consider any of the outstanding issues identified by IRD's Local Environmental Specialist as part of his regular checklist inspections. Specifically the following items were found to be outstanding in the most recent checklist prepared by the Engineer (13 April 2016):

- The measures to prevent dust emissions are not effective enough;
- Maintenance of vehicles is not being undertaken in the correct areas;
- Hazardous liquids are not stored properly around the construction camp;

Tarix: 11 May 2016-cı il
İstinad: FD-KC-16-M3-MJ-0536
Kimə: Cb. Hakan Yalçinkaya
Podratçının Nümayəndəsi
"KOLIN İNŞAAT" A.Ş.
Afiyəddin Cəlilov küç. 20, 17-ci mərtəbə,
Bakı, Azərbaycan, AZ 1025
Surəti: Cb. Ceyhun Yusifov
4 saylı LİQ-in direktoru
"AZƏRAVTOYOL" ASC
Azərbaycan, Bakı şəhəri, Binaqədi
rayonu, Biləcəri qəsəbəsi, Rəşid
İsmayilov küçəsi, 2025-ci məhəllə
Müqavilə: Masallıdan Cəliləbad yol qovşağındakı
(Pk. 142+890-dan 110+700-dək)
No. 02/2013/ICB/CW/AZE
Mövzu: Ətraf mühit, sağlamlıq və təhlükəsizlik
üzrə 2016-cı il yanvar – mart rüblük
hesabatının yoxlanılması

Hörmətli Hakan bəy,

Mən sizin Kolin/MSL/RDP/2016/565 sayılı, 14 aprel 2016-cı il tarixli və 14 aprel 2016-cı il tarixində alınmış məktubunuza istinad edirəm.

Mən Kolinin STƏM hesabatını yoxlamışam və onun qeyri qənaətbəxş olduğunu gördüm. Hesabatda İRD-nin yerli ətraf mühit mütəxəssisinin müntəzəm yoxlamalarının siyahısının hissəsi kimi müəyyən edilmiş tamamlanmayan məsələlər nəzərdə tutulmur. Xüsusi olaraq Mühəndis tərəfindən hazırlanmış ən son siyahıda (13 aprel 2016) aşağıdakı bəndlərin tamamlanmamış olduğu aşkar olundu:

- Toz ayrılımlarının qarşısını almaq üçün tədbirlər kifayət qədər effektiv deyil;
- Mağınların təmir edilməsi düzgün yerlərdə həyata keçirilmir;
- Təhlükəli mayelər tikinti düşərgəsinin ətrafında düzgün yığılmır;

- Hardstanding areas for maintenance and washing vehicles is not working properly;
- There is a lack of fire extinguishers at the construction camp;
- There is a lack of bounding in the asphalt plant – The Contractor was informed about this issue in December 2015 and that it needed to be addressed before the asphalt plant became operational;
- No spill kits in areas of hazardous liquid storage;
- Vehicle washing is occurring in the wrong locations;
- PPE is not always used by Contractors staff;
- Bitumen drums are stored on open, unbounded ground in the asphalt plant area;
- Lack of tarps on trucks delivering friable materials;
- Waste containers are not provided at all construction sites – Bridge 19 needs to be cleaned;
- Waste concrete has been dumped at bridge 19.

Nearly all of these issues have been discussed previously with the Contractor, such as the fire extinguishers and spill kits. However, the Contractor continues to disregard these issues, putting at risk the health and safety of his staff. The Contractor needs to read the weekly checklists completed by the Engineer and discuss the issues raised with the Environmental Specialist and then address the issues. This should all be fully reported in his Quarterly report. Currently the Quarterly report does not mention any of the problematic issues.

In addition to the above, it is noted that hazardous waste should not be 'donated' to the community. Non-hazardous wastes, such as wood, can be donated to the community, but not hazardous wastes as there is no way of knowing what the locals will do with this waste and if it will lead to pollution or health risks. Finally, it would be useful if the Contractor provided better photos illustrating the working order of areas such as the vehicle washing bay.

- Maşınların yuyulması və təmir edilməsi üçün ağır dayanıqlı yerlər düzgün işləmir;
- Tikinti düşərgəsində yanğın söndürən balonların çatışmazlığı var;
- Asfalt zavodda sədd qoyma çatışmazlığı var – Podratçı 2015-ci il dekabr ayında bu məsələ haqqında məlumatlandırıldı və bunun asfalt zavod işləməyə başlamazdan əvvəl həll edilməsi lazım idi;
- Xəətərli maye anbarında damcı qutusu yoxdur;
- Maşının yuyulması yanlış yerlərdə həyata keçirilir;
- Podratçının heyəti FMV-i daim istifadə etmir;
- Bitum çənləri açıq, asfalt zavod ərazisində sədd qoyulmamış yerdə saxlanılır;
- Yumşaq material gətirən yük maşınlarında tentlərin çatışmazlığı;
- Zibil konteynerləri bütün tikinti sahələrində təmin edilmir – 19 sayılı körpünün ətrafı təmizlənməlidir;
- Körpü 19-un yanında beton tullantısı tökülüb.

Yanğın söndürən balonlar və damcı qutuları kimi bütün məsələlər daha əvvəl demək olar ki Podratçı ilə müzakirə olunub. Lakin, Podratçı öz heyətinin sağlamlığını və təhlükəsizliyi riskə ataraq bu məsələləri saymazlığa davam edir. Podratçı Mühəndis tərəfindən tamamlanmış siyahını oxumalı və qaldırılmış məsələləri ətraf mühit mütəxəssisi ilə müzakirə etməli və sonra məsələləri həll etməlidir. Bu tam olaraq onun rüblük hesabatında məruzə edilməlidir. Hazırda rüblük hesabatda heç bir problemlə məsələlərə toxunulmur.

Yuxarıdakına əlavə olaraq qeyd olunur ki, təhlükəli tullantı icmaya "bağışlanılmamalıdır". Taxta kimi təhlükəsiz tullantılar icmaya bağışlana bilər amma yerli əhəlinin təhlükəli tullantı ilə nə edəcəyini və sağlamlığa təhlükə və çirklənməyə səbəb olacağı bilinmədiyi kimi təhlükəli tullantılar icmaya bağışlana bilmə. Son olaraq, Podratçı maşın yuma yerləri kimi ərazilərin işlənmə qaydasını göstərən daha yaxşı fotosəkillər təmin etsəydi daha yararlı olardı.

Therefore, I am not able to approve your report.

Please amend and resubmit.

Yoxdur, müdafiə.



Fatih Dağtas
IRD – Team Leader/
The Engineer's Representative

Ona görə mən sizin hesabatınızı təsdiq edə bilmirəm.

Zəhmət olmasa düzəliş edin və yenidən təqdim edin.

Hörmətlə,



Fatih Dağtas
“IRD”-nin Qrup Rəhbəri/
Mühəndisin Nümayəndəsi

Received by İlkin Abbasov
11.05.2016.

ANNEX H:

WATER MONITORING LOCATIONS

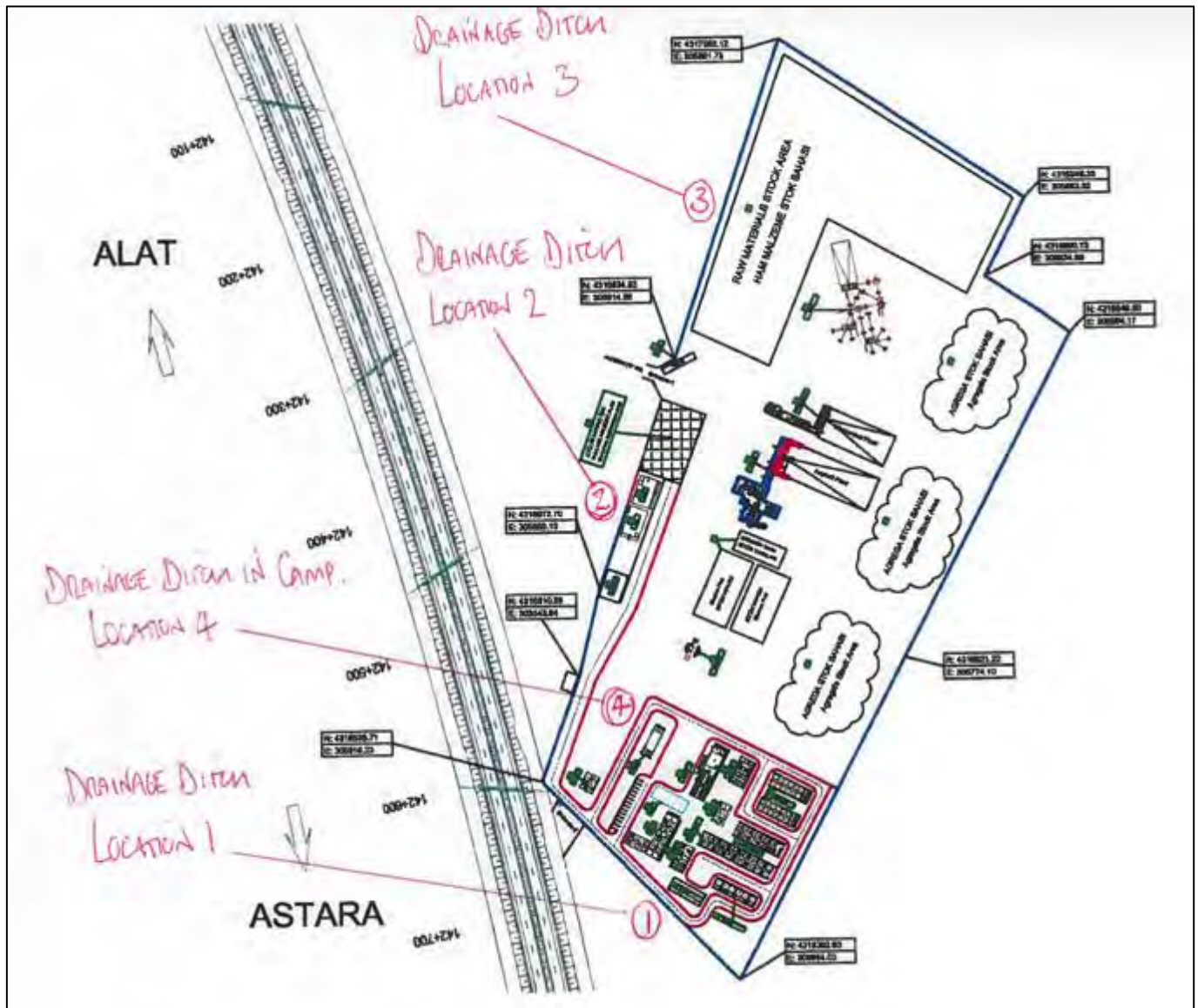




Figure I-1: Worker in the rock crushing conveyor belt.



Figure I-2: Small children on road embankments



Figure I-3: Workers in weigh hoppers



Figure I-4: Fuelling pipe outside of bund. Note the clear signs of soil contamination.



Figure I-5: New hole in the fuel storage bund.



Figure I-6: Full vehicle fuelling area sump



Figure I-7: Dust on access road from construction traffic



Figure I-8: Poorly sized culverts and wingwalls



Figure I-9: Low hanging transmission lines at Km113.



Figure I-10: Oil spills adjacent to maintenance area and drainage ditch



Figure I-11: Poorly sized bund, now with hole – adjacent to rock crushing plant



Figure I-12: Mysteriously this bund stops at this point in the asphalt plant area.



Figure I-13: A new fuel storage tank without bunding close to the asphalt plant



Figure I-14: Uncovered conveyor belts at the asphalt plant area



Figure I-15: Another uncovered conveyor belt



Figure I-16: Storage of hazardous kraton, a polymer which is a fire and explosive hazard.



Figure I-17: Status of fire fighting equipment at the maintenance yard.