Environmental Monitoring Report

February 2016 Bi-Annual Report 1 July – 31 December 2015

AZE : Water Supply and Sanitation Investment Program – Nakhchivan City Water Supply and Sewerage Subproject (Tranche 2 and 3)

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Prepared by AZERSU, Government of Republic of Azerbaijan for the Asian Development Bank.

Bi Annual Environmental Monitoring Report Period: July 1st – December 31st 2015

Project Number: 42408-MFF January 2016

Republic of Azerbaijan: Water Supply and Sanitation Investment Program – Nakhchivan City Water Supply and Sewerage Subproject (Tranche 2 and Tranche 3)

Prepared by SAWMC, Government of Republic of Azerbaijan for the Asian Development Bank.

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CURRENCY EQUIVALENTS

(As of 1 January 2016)

Currency Unit – Azerbaijan New Manat (AZN)

AZN 1.00	= USD 0.6413
USD 1.00	= AZN 1.5594

ACRONYMS

ADB	:	Asian Development Bank
AR	:	Autonomous Republic
ECO	:	Environmental Control Official
EIA	:	Environmental Impact Assessment
EMP	:	Environmental Management Plan
EMU	:	Environmental Management Unit
IEE	:	Initial Environmental Examination
Km	:	Kilometer
m ³	:	Cubic meter
Mg/L	:	milligrams per liter
Mld	:	Million liter per day
MENR	:	Ministry of Ecology and Natural
		Resources
M&E	:	Monitoring and Evaluation
NAR	:	Nakhchivan Autonomous Republic
PIU	:	Project Implementation Unit
PMF	:	Project Management Facility
PMO	:	Project Management Office
Project	:	Nakhchivan City Water Supply and
		Sewage Project
SAWMC	:	State Amelioration and Water
		Management Committee
SEE	:	The State Ecological Expertise
SNIP		Construction Norms and Regulations of
SINIF	•	Azerbaijan
WSS	:	Water Supply and Sewage
WTP	:	Water Treatment Plant
WWTP	:	Wastewater Treatment Plant
WHO	:	World Health Organization

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I. INTRODUCTION

A. Introduction to the Project

1. The Azerbaijan Water Supply and Sanitation Investment Program is being cofinanced by the Government of Azerbaijan and the Asian Development Bank through a multitranche financing facility (MFF) involving several tranches. The Tranche 1 Nakhcivan subproject of the Investment Program included partial construction of Water Supply and Sewerage (WSS) network of the City and construction of a new Water Treatment Plant (WTP). Construction Work under Tranche 1 has been completed.

2. The Tranche 2 Nakhcivan subproject of the Investment Program, which was signed on 06.06.2012, aims construction of remaining WSS network of the City; construction of WSS network of Shixhmahmud, a small town located close to the new WTP; and construction of a new Waste Water Treatment Plant (WWTP) for Nakcivan City.

3. The Tranche 3 Nakhcivan subproject of the MFF, which was started on 28.05.2015, aims construction of WSS network of 5 periurban towns of Nakhcivan City.

4. The Asian Development Bank (ADB) assisted The State Amelioration and Water Management Committee (SAWMC) of Nakhcivan AR for the Water Supply and Sanitation Subproject- Tranche 1 through its financing under Loan 2571-AZE; Subproject-Tranche 2 through its financing under Loan 2842-AZE; and Subproject-Tranche 3 through its financing under Loan 3049-AZE. Two procurement packages exist under Loan 2571-AZE in Tranche 1, four procurement packages exist under Loan 2842-AZE in the Tranche 2, and one procurement package exists under Loan 3049-AZE in the Tranche 3:

- Tranche 1

<u>Contract-1</u> (L-42408-ICB-2.02): Construction of 21.5 km of water network with fire fighting hydrants and house connections, 18.3 km of sewage network with manholes and house connections, and a 10,000 m³ concrete water reservoir.

<u>Contract-2</u> (L-42408-ICB-2.03): Construction of Nakhcivan City water treatment plant with 40,000m³/day capacity

Tranche 2

<u>Contract-3</u> (MFF-033-T2-ICB-1.04): Construction of 76.8 km of water network with fire fighting hydrants and house connections, 65.5 km of sewage network with manholes and house connections.

<u>Contract-4</u> (MFF-033-T2-ICB-1.05): Construction of 85.7 km of water network with fire fighting hydrants and house connections, 71.0 km of sewage network with manholes and house connections.

<u>Contract-5</u> (MFF-033-T2-ICB-1.06): Construction of Nakhcivan City wastewater treatment plant with 31,850m³/day average capacity.

<u>Contract-6</u> (MFF-033-T2-ICB-1.07): Construction of water supply and sewage networks of Shixhmahmud town.

- Tranche 3

<u>Contract-7</u> (MFF-043-T3-ICB-1.01): Construction of water supply and sewerage networks in periurban towns of Nakhcivan City.

5. The construction works under <u>Contract-1</u>, <u>Contract-2</u>, <u>Contract-3</u> and <u>Contract-4</u> were succesfully completed in September 2011, May 2013, October 2013 and January 2015, respectively. The <u>Contract 5</u>, which was signed on 5th of June 2014, is ongoing with a completion rate of 37.47 %. The <u>Contract 6</u>, which was signed on 30 November 2015, has just started with kick off meetings with the Contractor and mobilization work started in December. The <u>Contract 7</u> was signed on 30 November 2015 and mobilization works were started in December. This Report (Bi-Annual Environmental Monitoring Report) is prepared for the time period from 01 July 2015 to 31 December 2015.

B. Objectives of Biannual Environmental Reporting

6. The purpose of the Biannual 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 SSEMP 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).

7. The Reports are prepared by SAWMC and are intended to inform ADB and any other interested parties of the status of environmental management of the project. The Reports are summaries; more detailed information is included in the monthly and quarterly reports prepared by the Contractors and the Engineer.

C. Methodology

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

- Contractors' Monthly Environmental Management Reports;
- Engineer's Quarterly Progress Reports;
- PIU Environmental Specialist's Field Reports;
- Monthly instrumented monitoring results; and
- Correspondence between SAWMC, Engineer and Contractors relating to environmental and social issues.

9. In addition, some information and opinion in the reports results from site visits, technical meetings and public interviews over the preceding six months.

D. Project Organization

10. Project organization for the awarded contracts under MFF listed above is given in the table below.

Contract	Employer	Contractor	Engineer	Phase
Contract-1 (L-42408-ICB-2.02)		Gemiqaya Shirketi LLC	%100 Completed	
Contract-2 (L-42408-ICB-2.03)		Gemiqaya Shirketi LLC & Denizsu Joint Ven.		%100 Completed
Contract-3		Gemiqaya Shirketi		
(MFF-033-T2-ICB-1.04)	CANAMO	LLC	Yolsu	%100 Completed
Contract-4	SAWMC	Gemiqaya Shirketi	Engineering Services Ltd.	
(MFF-033-T2-ICB-1.05)		LLC		%100 Completed
Contract-5		Dizayn İnshaat &		Ongoing (% 37.5
(MFF-033-T2-ICB-1.06)		Bioworks JV.		completed)
Contract-6 (MFF-033-T2-ICB-1.07)		Cahan İnshaat Llc		Contract signed in November 2015.
Contract-7 (MFF-043-T3-ICB-1.01)		Dizayn İnshaat Llc	In selection process	Contract signed in November 2015.

E. Construction activities and Project Progress during previous 6 months

11. The construction activities continued in this period, only under Contract 5. Table 1 below shows the Contractors's monthly progress throughout the current reporting period. The civil works within this period comprised mainly construction of water basins and other structures of the WWTP, including administration building, blower room, pump rooms, sludge dewatering structure, MBR building and transformer&generator building. Also most of the yard piping was installed in place. Mechanical installation works were also started.

Month	Cumulative Progress (%)	
July 2015	27.76	
August 2015	30.67	
September 2015	35.12	
October 2015	35.94	
November 2015	37.47	
December 2015	37.47	

Table 1: Monthly Progress of the Contractor during the last six months

- 12. The construction activities affecting the environment were as follows:
 - (1) Trenching and excavation,
 - (2) Removal of soil
 - (3) Pipe installation
 - (4) Backfilling and compaction
 - (5) Concrete works, including rebar and formwork works.
- 13. The following items were monitored during the implementation of the project.
 - (1) Noise
 - (2) Water Quality
 - (3) Air Quality
 - (4) Flora Fauna
 - (5) Waste disposal

14. The subproject construction site of Contract 5 is government property, allocated to be the WWTP area. There is no protected areas, wetlands, mangroves, or estuaries. There is no land acquisition and relocation of people. Vegetation (mostly grasses), in the subproject site is those commonly found in the area. The geological structure of the area is stable, the plant site is flat, and no potential land subsidence is foreseen.

F. Environmental Management Team

15. An environmental control official (ECO) exists under the PIU of SAWMC: Mr. Orxan Seferov. The consultant has a local environmental specialist, Mr. Hilal Qasimov on site for supervision and monitoring of the Environmental Management Plan, together with the ECO.

16. The Contractor's Environmental Officer is Nahid Huseynov, for Contract 5.

G. Relationships with Contractors, Owner, Lender and Engineer

17. The relationships between Contractors, Engineer, Owner, and Lender are considered normal working relationships.

18. At the working level, communication with regards to environmental issues remains good.

II. ENVIRONMENTAL MONITORING

A. Status

19. Regular monthly monitoring has been carried out in accordance with the SSEMP throughout the current reporting period.

20. Regular air, noise and dust measurements have been carried out by both the Contractor and the PIU ECO.

B. Results

a) Noise

21. The ECO has regularly monitored the noise levels with hand held decibelmeters, both from a distance of 5m from the noise source and from the nearest residential and/or industrial area. The measured noise levels were found to be far below the maximum allowable noise levels provided in the IEE and SSEMP (i.e. 50 db for industrial areas and 40 db for residential areas). The full results are provided in Appendix 1.

22. The Contractor employed practical means to minimize noise resulting from construction work. Noise was minimized through proper maintenance of equipment and vehicles.

23. All construction tasks were carried out during unrestricted hours (09.00 to 18.00) Monday to Saturday, excluding general holidays

24. Heavy vehicles used for the purpose of the Works were required to be equipped with exhaust silencers. No diesel heavy construction equipment were kept running idle for more than five minutes.

25. Machines in intermittent use were being shut down in the intervening period between works or throttled down to a minimum.

26. The Contractor had organized his operations at the start of the project with regard to the positioning of plant and movement of vehicles to minimize noise adjacent to properties. This organization is planned to continue until the end of the project.

27. Special consideration have been provided to protect workers from harmful and long exposures to noise originating from construction machinery such as the wearing of earmuffs for operators.

28. Handling of construction materials were done during daytime.

b) Water Quality

29. No construction work took place around natural bodies of water like rivers, streams, etc. The nearest water body in the region is Araz River, which is approximately 1.5 km south of the project site. Araz river is a very large water body and its water quality is largely dependent on the upstream water quality. No water samplings were needed to be taken at the Araz River, since it is impossible to monitor or identify any effects of the construction on the Araz River.

30. There are few drainage ditches around the project site. These ditches are, in general, empty. Only, in heavy rain events, or during irrigation of nearby farms, excess run-off water may flow to the ditches. Daily visual inspections and monitorings of these ditches were performed. From the inspections, no issues were reported during this six months period.

31. All works have been undertaken in a manner that no debris, slash, wood chips, organic debris, soil, petroleum, diesel fuel, oil, grease, ashes, or other substances deleterious to environment was allowed to enter any water bodies. Solid Construction material and spoil stockpiles were covered to reduce material loss and run-off.

c) Air Quality

32. All air quality monitoring results for all determinants and all monitoring stations were below Azeri national standards during the present reporting period. Particulate, NO2 and CO readings were taken regularly at the project site. The full results are provided in Appendix 1. In dry and windy days where spreading of dust may occur; the ground surfaces were sprayed with water using water trucks equipped with sprinklers or any other appropriate means.

33. 30 km/h speed limit was set for movement of heavy construction vehicles on access roads. All excavation works, and loading/unloading operations were stopped when wind speed exceeded 12 km/s.

34. There are no concrete plants at the site. Ready mix concrete was delivered with trucks from the nearest concrete plants in Nakhcivan. Hence no dust issues were observed at the WWTP site. All construction activities were executed in such a way that will minimize if not totally eliminate the spreading of dust or any inconvenience and nuisance to nearby communities.

d) Flora and Fauna

35. The Contractor did not encounter any Flora or Fauna at the construction sites, there is no Flora during the execution of the Works.

e) Waste Disposal

36. All solid wastes were properly packaged, and disposed at the designated waste disposal site of the City. The site was designated by MENR, and was located 8 km northwest of the City. Waste containers were placed in every construction site and worker camps. These containers were daily collected and disposed lawfully.

C. Action

37. No action is required on ongoing Contractor in response to the monitoring results from the present reporting period.

III. ENVIRONMENTAL MANAGEMENT

A. Status

38. Environmental management of the project has continued to be of an acceptable standard during the present reporting period. General cleanliness of the project site is good, and the physical mitigation measures set out in the SSEMP are generally all constructed and functioning as designed. Activity-based mitigation measures are also being implemented.

39. There have been no accidents during the reporting period involving the public or workers.

B. Documents

40. The Contractor submitted monthly statements to the PIU describing their environmental monitoring and management activities. Reporting was generally compliant. All relevant paperwork, including SSEMP and the Grievance Register, was present at the site office, at the time of site visits performed by the ECO.

C. Inspections and Audits

41. The ADB's environmental specialists as well as the project team have visited the site numerous times in the past six months. During the visit in August, the SSEMP was found to be missing in the Contractors site office. Necessary actions were taken immediately.

42. In the other site visits of the ADB team in this reporting period, no non-compliances were observed.

43. PIU Environmental Control Official performed daily site visits to the project site. In addition, the consultants' local environmental specialist were on site daily to monitor safeuard measures and to take actions when needed.

D. Non-compliance and Corrective Actions

44. The Contractor has continued the construction works on site over the past six months within the bounds of the SSEMP; all works were compliant, and the site was clean, tidy, and well maintained. General view of the project site is shown in Figure 1 below.



Figure 1: General Views of the site

Dust control in general was observed to be appropriate, with trucks frequently observed 45. at the project site; examples are shown in Figure 2 below.



Figure 2: Dust Control at Project site

46. Air quality and noise monitorings were done frequently on the project site. Below are few examples of monitoring works.





47. Stocking of materials and equipment was found to be appropriate. Below are few examples of stocked pipes and equipment on site.



Figure 4: Pipes and equipment in Contractos storage on site

E. Consultation and Complaints

48. Environmental management of the project has continued to be of an acceptable standard during the present reporting period. General cleanliness of the project site is good, and the physical mitigation measures set out in the SSEMP are generally all constructed and functioning as designed. Activity-based mitigation measures are also being implemented.

49. During the present reporting period a public consultation was held on the following date at the Contractor Camp. The Executive Authority and the Engineer also attended the meeting.

Date and place of consultation: 10th December 2015:

50. In this report the meeting registration is provided in Appendix 2. Some photos illustrating the meetings are shown in Figure 5.



51. During the meeting the Contractor's Environmental Officer delivered a presentation, which focussed on two main subjects:

- The construction process and schedule; and
- The Grievance Redress Mechanism.

52. Following the presentation, attendees were then given an opportunity to make comments or ask questions. Various questions were asked during the meetings, mainly relating to the project schedule and project outputs. Common questions of the attendees were the effluent water quality at the end of the project and usage of byproducts from the treatment process (i.e. use of solid waste as fertilizer in agriculture). No grievance was registered at the meeting.

F. Emerging Issues

53. No emerging issues were reported during the report period.

G. Conclusions

54. Environmental management of the project has continued to be of an acceptable standard during the present reporting period. General cleanliness of the project site is good, and the physical mitigation measures set out in the SSEMP are generally all constructed and functioning as designed. Activity-based mitigation measures are also being implemented.

55. No complaints were received during the report period. Although the overall work has not progressed as per the project schedule, mostly due to the delays in the arrival of mechanical equipment from Europe, the Contractor have completed most of the civil works

as planned. The mechanical installation works are also progressing in fast track to match the revised project schedule.

56. Document-level compliance and level of public consultations was assessed as good within present reporting period. Contractor tries to follow SSEMP requirements. Contractos's reports were also in an acceptable level.

APPENDIX 1: ENVIRONMENTAL MONITORING RESULTS

Nakhchivan Water Supply and Sanitation Investment Program

"Construction of Nakhchivan City Wastewater Treatment Plant"

December 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.12.2015 to 31.12.2015. Ecological standards combiance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

Item	Indicator	Period	Active level	Measures undertaken	Responsibility
Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management (ESM)engineer, contractor
Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
Waste monitoring impact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
Quality of water	Quality\Poll utant concentrati on	Continous	compliance with the lisence requirements	Water quality was not changed	ESM, Supervision engineer ,contractor
Ecological resources	Local Fauna and Flora	Continous	Minumum environmental impact	No impact was observed	ESM, Supervision engineer ,contractor
Surface	Land monitoring and erosion control	Continous	Minumum environmental impact	Was compliant with the requirements	ESM, Supervision engineer ,contractor
Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of Grit chamber continued during November. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (70 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government.

SAWMC, PMU, Monitoring and Assessment specialist

Construction supervision engineer

Contractor specialist

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Nakhchivan Water Supply and Sanitation Investment Program

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"Construction of Nakhchivan City Wastewater Treatment Plant"

November 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.11.2015 to 30.11.2015. Ecological standards combiance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

	Item	Indicator	Period	Active level	Measures undertaken	Responsibility
	Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management
						(ESM)engineer, contractor
1	Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
1	Waste monitoring mpact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
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	Surface	Land monitoring and erosion control	Continous	Minumum environmental impact	Was compliant with the requirements	ESM, Supervision engineer ,contractor
l	Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of mbr system & building and generator and transformer building continued during October. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (70 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government.

SAWMC, PMU, Monitoring and Assessment specialist

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Contractor specialist

Construction supervision engineer

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Nakhchivan Water Supply and Sanitation Investment Program

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"Construction of Nakhchivan City Wastewater Treatment Plant"

October 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.10.2015 to 31.10.2015. Ecological standards combiance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

Item	Indicator	Period	Active level	Measures undertaken	Responsibility
Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management
					(ESM)engineer, contractor
Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
Waste monitoring impact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
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Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of construction of grit chamberhas and sludge dewatering building continued during September. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (70 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government.

SAWMC, PMU, Monitoring and Assessment specialist

Construction supervision engineer

Contractor specialist

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Nakhehivan Water Supply and Sanitation Investment Program

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"Construction of Nakhchivan City Wastewater Treatment Plant"

September 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.09.2015 to 31.09.2015. Ecological standards combiance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

Item	Indicator	Period	Active level	Measures undertaken	Responsibility
Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management (ESM)engineer, contractor
Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
Waste monitoring impact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
Quality of water	Quality\Poll utant concentrati on	Continous	compliance with the lisence requirements	Water quality was not changed	ESM, Supervision engineer ,contractor
Ecological resources	Local Fauna and Flora	Continous	Minumum environmental impact	No impact was observed	ESM, Supervision engineer ,contractor
Surface	Land monitoring and erosion control	Continous	Minumum environmental impact	Was compliant with the requirements	ESM, Supervision engineer ,contractor
Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of foundation of MBR system building and walls of Generator Building has continued during August. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (70 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government.

SAWMC, PMU, Monitoring and Assessment specialist Construction supervision engineer

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Contractor specialist

Nakhchivan Water Supply and Sanitation Investment Program

"Construction of Nakhchivan City Wastewater Treatment Plant"

August 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.08.2015 to 31.08.2015. Ecological standards comliance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

Item	Indicator	Period	Active level	Measures undertaken	Responsibility
Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management (ESM)engineer, contractor
Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
Waste monitoring impact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
Quality of water	Quality\Poll utant concentrati on	Continous	compliance with the lisence requirements	Water quality was not changed	ESM, Supervision engineer ,contractor
Ecological resources	Local Fauna and Flora	Continous	Minumum environmental impact	No impact was observed	ESM, Supervision engineer ,contractor
Surface	Land monitoring and erosion control	Continous	Minumum environmental impact	Was compliant with the requirements	ESM, Supervision engineer ,contractor
Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of Mechanical building walls and roof has continued during June - July. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (60 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government. Regular watering of exposed construction areas subject to vehicle and machinery movenment have been carried out during construction.

SAWMC, PMU, Monitoring and Assessment specialist

Construction supervision engineer

Contractor specialist

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Nakhchivan Water Supply and Sanitation Investment Program

"Construction of Nakhchivan City Wastewater Treatment Plant"

July 2015 - Ecological monitoring

The construction of Nakhchivan City Wastewater Treatment Plant has continued from 01.07.2015 to 31.07.2015. Ecological standards comliance was checked in the monitoring areas, workers were instructed and preventative measures were taken. The results of monitoring are in the following table:

Item	Indicator	Period	Active level	Measures undertaken	Responsibility
Environment air	Dust	Continous	General observation	The area was watered during dry weather	Environmental Supervision Management (ESM)engineer, contractor
Volume	Volume level	Rates per hour	weekly inspections	Volume level was within the norms	ESM, Supervision engineer ,contractor
Waste monitoring impact	Waste segregation and storage	Monthly inspections	impact monitoring, compliance monitoring	waste was carried into special containers	ESM, Supervision engineer ,contractor
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Surface	Land monitoring and erosion control	Continous	Minumum environmental impact	Was compliant with the requirements	ESM, Supervision engineer ,contractor
Landscape	Temporary surface structure cleanness	Once before the completion	Minimum diffusion to the original landscape	Complying with the adviced measure	ESM, Supervision engineer ,contractor

Construction of Sand and GRIT have been carried out (taken away) construction (building) of the iron concrete wall, distributive cell of the cell. continued during December. Not any serious problem and disturbance case for people's normal daily life was found during the inspection. During construction works, according to sound level-meter the sounds made by used machines has not violated the norms (70 dBA for short term). Different kinds of waste produced by the workers and vehicles in the construction area, were transported to the special waste collectors made available by the government.

SAWMC, PMU, Monitoring and Assessment specialist

Construction supervision engineer

Contractor specialist

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Safarov. Q Rzayev. T Huseynov. N

APPENDIX 2: LIST OF PARTICIPANTS AT THE PUBLIC CONSULTATION

No	Name and surname	Signature
1 Rzay	jere Telman	Mente
	-or Orxan	Berten H
3 Hüseyn	or Nahid	FIB
4 Drucov	Azad	and
5 Zamai	nov ilgor	Filse
6 Zeyna	lov Latif	the
	nov Soxit	Sug
8 Cafaro	ulu Musavi	Atur
	ev Qambar	SA
10 Tagiye	v Natiq	5 mil
and the second s	er Arif	Am B3
	nadov Sarxan.	Munes
	er Rosad	132kz
	Voyvod	CH
	stor Yaqub	Plues
16 Naca		Munte
	v Famil	Adamo
	nov Teymur.	How
19		

Registration of the Participants of the meeting