



**SEMI-ANNUAL PROGRESS REPORT
FOR THE IMPLEMENTATION OF ENVIRONMENTAL
TERMS
DURING THE CONSTRUCTION PHASE**

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Date: 30.06.2009

**SEMI-ANNUAL PROGRESS REPORT FOR THE
IMPLEMENTATION OF ENVIRONMENTAL
TERMS
DURING THE CONSTRUCTION PERIOD**

IONIA ODOS MOTORWAY FROM ANTIRIO TO IOANNINA

CONCESSIONAIRE OF THE PROJECT: NEA ODOS S.A.
CONSTRUCTOR: EURO IONIA JOINT VENTURE

JULY 2009

ANTIRIO – SOUTHERN END OF AGRINIO

BYPASS (KEFALOVRYSSO)

Joint Ministerial Decision 142128/25.07.2005

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
A.1	Installation permits for any activity or to facilitate the completion of various works.	<p>All foreseen by the legislation permits and approvals, including the environmental permit possibly required, are obtained, when needed.</p> <p>The relevant Special Technical Implementation Studies (STIS) for all required sites (quarries, borrow pits, disposal sites and worksites) have been submitted to the Service and their approval is expected. The submission of the studies as well as the progress of the approval procedure are as follows:</p> <p><u>Borrow pits</u></p> <p>Location: Skinos BP08 CH. 31+000: Submission of a Special Technical Implementation Study to the Service with Protocol No. 4034/14.07.08. Approval is expected. The Technical Implementation Study 5828/13.11.08 has been approved (Δ10-B/Φ.5.30/24474/4421/29.10.08) and also the relevant supporting documents were submitted to the Forest Service of Messologi in order to issue a characterization certificate (IC-X-CO-S0000-Pro 9075/Νικ/sfa/05-05-2009).</p> <p>There is no interest in using the locations of Kranolaggada at the community of Stamna and Loutses (ΒΠ 5) at the Prefecture of Aetoloakarnania. Four locations were found and are being environmentally explored in order to obtain a permit.</p> <p><u>Quarry</u></p> <p>Location: Kremasti (QP 08): CH 40+000: A Special Technical Implementation Study was submitted to the Service with Protocol No. 101816/03-03-08. From 7/04/09 all required positive opinions of bodies/revocation of reforestation, etc. have been submitted as follows:</p> <ul style="list-style-type: none"> • ΛΣΤ Pre-historical & Classical Antiquities Service with ref. no. Φ666/ΣΤ/ΛΣΤ/2831/5-5-08 • 22nd Byzantine Antiquities Service with ref no. ΥΠΠΟ/22Η ΕΒΑ/1438/12-5-08 • ΠΔΕ Natural Resources Office with ref. no. 2048/08 31-3-08 • National Organization for Tourism with ref. no. 1998/3/3/08 • Reforestation revocation approval: Decision 876/4-3-09 <p>The additional complementary elements were submitted to the Service with Protocol No. IC- C- S1000-Pro14900/ΝΙΚ/sfa. The Service's approval is expected. A submission for the approval of intervention by the Forest Service was carried out with Decision No. CC-X-SB-</p>

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
		<p>S1000EIO της 9/07/09.</p> <p><u>Gravel extraction from Evinos river</u></p> <p>Kalfa location: Submission to the Service with Protocol No. 135680/10.12.07. Approval is expected.</p> <p>Paradission location: Submission to the Service with Protocol No. 135681/10.12.07. Approval is expected.</p> <p><u>Worksites</u></p> <p>Agios Georgios location - Evinos river: Submission to the Service with Protocol No. 102919/04.04.08. Re-submission to the Service with Protocol No 11939/26-06-09.</p> <p>Aetoliko area (CH. 39+000): A Special Technical Implementation Study was submitted to the Service (IC-C-CO-S111N-PRO6030/EM/em/) and following the Service's remarks a re-submission was carried out Rev A(24-04-09). The relevant Antiquities Service Approval was issued Φ666/ΣΤ/ΛΣΤ/4184/29-06-09. Furthermore, the relevant supporting documents for the "characterization" were submitted to the Forest Service (IC-C-CO-SL11N-PRO11748 GEP/MAG) on 19/06/09.</p> <p>No permit from the relevant Forest Service was required for all works performed this particular period (geotechnical investigations – drills and works at Kalydona tunnel), since these were conducted outside the forest boundaries.</p> <p>With respect to the main project, no intervention permit and reforestation revocation are needed. (Law 355/2007 article 4, par. 4 (a)(OGG 81A/16.04.2007), Law 2445/1996 (GG 274A) par. 1 case c of article 2).</p> <p>The process has been implemented for the ancillary works within the forest areas. Revocation of reforestation for the quarry at Kremasti with Protocol No. 2572/26-06-2009 at the Forest Service of Messologi. The relevant supporting documents for the worksite of Aetoliko were submitted: (IC-C-CO-SL11N-PRO 11748 GEP/MAG) (19/06/09).</p> <p>For any work or installation, an intervention permit is needed which is granted by the Forest Service responsible.</p> <p>With respect to the abrogation of re-forestation, in accordance with Law 3555/2007 (ratification of the Concession Agreement)/ Article 4/ par. 4a and Law 2445/1996/ Article 2/ par. 1c, <i>'The occupancy, reclamation or coverage of forests or forest areas that are included in the boundaries specified in the designs of Annex 7 and in accordance with the terms and conditions of the agreement are permitted.'</i> This law approves the change of use, revokes the re-forestation and grants intervention permits and permits for felling works to the above</p>

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
		sites'.
A.2	Archaeological Services	<p>The responsible Archaeological Services were notified of the following cases:</p> <p>a) Permit to sand/gravel extraction at the locations of Paradission and Kalfa to the ΛΣΤ' Archaeological Service (document with ref. no. IC-X-CO-S1000-Pro8147/IM/sfa/27-3-09 and IC-X-CO-S1000-Pro8149/IM/sfa/27-3-09 respectively) and positive reply from the ΛΣΤ' Archaeological Service (document with ref. no. Φ666/A2/ΛΣΤ/1975, 11.05.09 and Φ666/A2/ΛΣΤ/1974, 11.05.09 respectively)</p> <p>b) Commencement of construction works at Kalydona tunnel to the ΛΣΤ' Archaeological Service (document with ref. no. IC-X-CO-S108N-PRO6565/IS/is, 07.01.09)</p> <p>c) Suggestion by an archaeologist to monitor the excavation works which was submitted to the ΛΣΤ' Archaeological Service (document with ref. no. IC-X-CO-S108N-PRO8466/IM/sfa, 07.04.09)</p> <p>d) Opinion on the use of explosive materials for the construction of the Kalydona tunnel (documents with ref. no. 87365/ΙΣ/γσ, 27.02.09 and 87159,17.02.09) and positive reply from the ΛΣΤ' Archaeological Service (documents with ref. no. Φ222/Γ2/2472, 27.04.09 and Φ666/A2/ΛΣΤ/981, 25.02.09 respectively)</p> <p>Ancient debris was found during cuts at the area of ancient Kalydona. The ΛΣΤ' Archaeological Service sent a notification (document with ref. no. Ö666/Á2/ΛΣΤ/381, 23.01.09) to commence the rescue investigations. No construction works are carried out at this particular area.</p> <p>In the event new antiquities are found, the process referred to in the relevant Environmental Terms will be followed.</p> <p>With respect to the coverage of the expenses incurred during the archaeological surveys, article 1, par 13.2 of Law 3555/2007 shall apply.</p>
A.3	Borrow pits – Quarries	For all new sites were materials have been delivered, the required STISs have been submitted, as referred to in term d2.1 of paragraph A1, and the relevant opinion of the responsible Archaeological Services shall be requested in order to obtain the appropriate environmental permit.



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B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
B.1	Buildings - toll stations - Motorists Service Stations - O&M Control Centers	With respect to the environmental permit of the new toll stations for Motorists Service Stations/O&M Control Centers, the relevant permit procedures shall be followed.
B.2	Disposal / Excavations / Explosives	<p>The term on the disposal of inappropriate excavation products is a criterion used during searching locations for possible disposal sites and will be taken into account at the preparation of the respective Special Technical Implementation Studies that will be submitted to the Service.</p> <p>In the event that during the construction phase, excavation locations containing waste or other solid waste are found, these will be separated from the excavation materials and will be appropriately disposed. Also, it has been ensured that excavation materials which are free of foreign substances are kept free of waste.</p>
B.3	Rehabilitation/ Worksites	<p>It has been ensured that the layout planning of concrete and asphalt mix production plants abide by the afore-mentioned restrictions, as specified in the Environmental Term. This issue will be reviewed in the Special Technical Implementation Studies submitted.</p> <p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p> <p>There are no operating plants of asphalt mix, concrete production and stone-grinding yet.</p> <p>The establishment of a stone-grinding plant and a concrete production unit has been foreseen at the worksite of Aetoliko and the Special Technical Implementation Study includes all relevant measures. After their establishment, compliance with these environmental terms will be directly monitored as per the Environmental Monitoring & Control Program.</p> <p>For any new worksite installation (or installation from the subcontractor) Special Technical Implementation Studies will be prepared and will be submitted to the Service for approval. The protection measures referred to in the Special Technical Implementation Studies will be observed and will include all details referred to in the respective environmental term. The implementation of the environmental term will be inspected via monitoring in line with the Environmental Monitoring & Control Program.</p> <p>The final landscaping plans and the corresponding irrigation plans have been assigned and are currently being drafted and submitted to the Independent Engineer. The rehabilitation works and their budget is an integral part of each Special Technical Implementation Study (disposal sites, borrow pits, worksites, etc.).</p> <p>Flora is being retained in order to be used in landscaping rehabilitation works.</p>
B.4	Various construction	The term on the direct entrance in the Kalydona tunnel has been taken into account at the tunnel design prepared and submitted to the



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B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
	terms	<p>Independent Engineer with ref. no. 5216/22-10-08.</p> <p>The design of the eastern front of the Kalydona tunnel has been approved by the Independent Engineer via the document IC0035 DAC 5/03/09. Based on this design, no surface excavations will be performed at >5m, except for the temporary ones. The layout planning of the front will be carried out via excavation and re-embankment. A landscaping design will follow.</p> <p>The term on the wild fauna has been taken into account at the studies already drawn up. This issue will be included in the Environmental Impact Studies.</p> <p>The Euroionia Joint Venture has a department for Environment, Health and Safety staffed with the required personnel. The responsibilities and obligations of the department's staff are described in the Quality Management System of the Joint Venture.</p>
B0.5	Superficial runoffs	<p>The relevant hydraulic designs in which all necessary terms are taken into account have been assigned, prepared and will be submitted to the Independent Engineer.</p> <p>The term on the protection of natural slopes from corrosion has been taken into account and will continue to be taken into account in the future at the preparation of the existing or future studies.</p>

C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.1	Water protection - Liquid waste	<p>The content of the Environmental Term 7 about uninterrupted flow of surface water shall be taken into account during the preparation of the relevant hydraulic designs.</p> <p>The content of the Environmental Term 9 about ensuring satisfactory operation of the public utility organizations shall be taken into account during the preparation of the relevant reconstruction designs.</p> <p>A contact with all involved Public Utility Organizations has been made (in accordance with par 7 of the Special Conditions of Contract) in order to identify the areas for networks relocation. This information has been given to the Designers/Consultants in order to take it into account when drawing up their designs. The necessary actions will be carried out to rehabilitate the irrigation networks and passages from other irrigation channels to the area with respect to the positive opinion about the hydraulic design from the respective Service of Aetoloakarnania. The finalized hydraulic designs at the sections where they meet irrigation networks are under preparation and will be submitted to the Independent Engineer after their completion.</p> <p>Liquid waste shall be managed based on the relevant terms. An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p>
C.2	Air and noise protection	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up.</p> <p>In particular with respect to dust, based on the works foreseen, the following shall be implemented:</p> <ul style="list-style-type: none"> • Worksite roads will be regularly wet. • The trucks that transfer materials will not be overloaded and all trucks transferring loose materials will be covered. • The trucks will be cleaned before they exit the worksite and the existing road network that will be used to reach the worksites will be regularly cleaned from residuals. <p>With respect to the installation of an air/noise measurement station, the appropriate actions are taken to determine any possible locations so that they are submitted for approval to the Service. The operation of the station is related to the operation phase of the project.</p>

C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.3	Noise - Movable noise barriers - Vibrations	<p>With respect to the noise during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures to resolve noise problems in accordance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p> <p>With respect to the provision of placing noise barriers, a Special Acoustics Study for Noise Protection has been assigned, is being prepared and will be submitted for approval to EYPE/YPEXODE.</p> <p>In any case, after the commencement of the works, the relevant legislation for noise will be taken into account, which is referred to in term c.</p> <p>Construction works with a possibility to create vibrations will be equipped with a measurement and recording system in order to monitor all significant variables, when required.</p>
C.4	Solid and hazardous waste	<p>With respect to waste management during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services. In any case, after the commencement of the works, the relevant legislation will be taken into account, which is referred to in the adjacent terms.</p> <p>In any case, domestic waste will be transferred to the local authorities, while the subcontractors should dispose lubricating oils or hazardous waste to licensed administrators who should issue the relevant disposal certificate. The disposal and management process of such waste is described in more detail in the Environmental Management Plan.</p>
C.5	Fire prevention	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up.</p> <p>In any case, after the commencement of the works, the fire protection measures will be inspected in the machinery and worksites while all specifications and requirements of the Health & Safety Plan of the Project should be observed.</p> <p>With respect to the worksite at Agios Georgios, CH.21 for which the relevant Special Technical Implementation Study has been submitted to EYPE, the Service has asked for the opinion of the relevant Archaeological Services.</p>
C.6	Safety / Pollution caused by accident	<p>The relevant signage will be installed at the worksites before the commencement of the works, as described in the Special Conditions of the Project and the relevant worksite signage or traffic studies required.</p>



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C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
		<p>An Intervention Plan which is a part of the Policing and Fire Fighting Agreement between the Concessionaire and the Ministry of Internal Affairs has been drawn up. The Intervention Plan for Emergency Situations specifies measures to timely collect and remove hazardous substances while preventing pollution of the water/soil resources, etc. This Intervention Plan includes all measures/required equipment etc. that will be needed in case of accident and leakage of non-biodegradable substances, including the necessity to construct Pollution Control Units.</p> <p>The term regarding rescue / escape of trapped people in emergency situations at the Kalydona tunnel has been taken into account based on the risk analysis study submitted to the Independent Engineer.</p>
C.7	Public Utility Organizations – traffic settlement	<p>A contact with all involved Public Utility Organizations has been made (in accordance with par 7 of the Special Conditions of Contract) in order to identify the areas for networks relocation. This information has been given to the Designers/Consultants in order to take it into account when drawing up their designs.</p> <p>Traffic management will be carried out based on the relevant traffic designs, through which adequate and safe communication will be ensured throughout the entire construction phase.</p> <p>Access to the villages will be retained. This issue is being controlled through monitoring the Environmental Terms. During the preparation of this report, no need for structures that block access has arisen.</p>



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AGRINIO BYPASS

(Joint Ministerial Decision 84982/96/11.04.1997 & 105886/03.07.08)

A. PERMITS & APPROVALS		
No.	ACTIVITY	PROGRESS
A.1	Installation permits for any activity or to facilitate the completion of various works.	<p>No additional sites are required for this particular section.</p> <p>Approved sites for sand/gravel extraction (d8 and d9) are already used with permits obtained from the Cadastral Service of Etolokarnania with protocol no. 702/Φ440/005/Γ 05.03.2007.</p> <p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up.</p> <p>Disposal was temporary and outside occupancy zone. For the disposal of non-appropriate excavation materials, the E1 disposal sites have been approved for this part of the project (protocol no. 101105/07.02.08/EYPE).</p> <p>The worksite for this section has been established during previous contract works at the southern part of the Agrinio bypass. This site has been defined by the relevant studies of the said project. The disposal of excavation products in streams or river beds is avoided.</p> <p>The responsible Forest Service was not updated during this particular period because the works were made outside forest areas.</p> <p>For any work or installation, an intervention permit is needed which is granted by the Forest Service responsible.</p> <p>With respect to the abrogation of re-forestation, in accordance with Law 3555/2007 (ratification of the Concession Agreement)/ Article 4/ par. 4a and Law 2445/1996/ Article 2/ par. 1c, <i>'The occupancy, reclamation or coverage of forests or forest areas that are included in the boundaries specified in the designs of Annex 7 and in accordance with the terms and conditions of the agreement are permitted.'</i> This law approves the change of use, revokes the re-forestation and grants intervention permits and permits for felling works to the above sites'.</p>
A.2	Archaeological Services	Due to the nature of the works completed (completion of the road) the Archaeological Service was not updated during the report period. For any additional completion work or installation, a permit and approval is needed which is granted by the Forest Service responsible.
A.3	Borrow pits – Quarries	Referred above in section A1.



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B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
B.1	Buildings - toll stations - Motorists Service Stations - O&M Control Centers	With respect to the environmental permit of the new toll stations for Motorists Service Stations/O&M Control Centers, the relevant permit procedures shall be followed.
B.2	Excavations / Explosives / Disposal	<p>All products that will derive from the foreseen and approved excavation designs will be used to manufacture embankment or any other road works, provided that they are proved to be appropriate (after several laboratory tests).</p> <p>Disposal was temporary and outside occupancy zone. Furthermore, for the disposal of non-appropriate excavation materials, the E1 disposal sites have been approved for this part of the project (protocol no. 101105/07.02.08/EYPE).</p> <p>All terms have been taken into account in the road works design IC-C-EN-S113N-IJ-0200-000-ALI-000-FL.002.01.01.01-C submitted and approved (Approval Certificate: IC0003/10-07-2008, Code: IC.U.IE.S113N.MO.0200.000.A) at Aggelokastro I/C. In the alignment at the area of Aggelokastro I/C, the cuts are less than 30m and may be 15m in height max. Therefore, there is in no need for small relocations of the axis or for the construction of a cut & cover. The proposed formation of the embankments arises from the geotechnical study so that safety and stability conditions are ensured.</p> <p>With respect to the large cut at CH. 13+400, the following apply:</p> <ul style="list-style-type: none"> • During the excavation phase of the previous subcontractor, landslide failures and creeping movements presented. The construction was paused and the excavations were re-embanked to restore the failures and movements. At this phase, the slopes declination was re-defined so as to discharge the problematic area (by removing materials) and to significantly reduce the creeping movement of the land. • The solution of mild slops offers greater safety in the event of earthquake in the area because the cuts will be moved by causing minor compression failures at the pavement which can be easily repaired. • Any other solution to this problem (e.g. Cut & Cover) would be established at a problematic area and the compression movements in the event of earthquake would cause irreversible damage. <p>Following the above, it is clear that the large cut has arisen as a need to manage landslides. Its layout planning in scales with mild declination in combination with the appropriate landscaping measures would lead to its smooth integration into the surrounding area.</p>
B.3	Rehabilitation/ Worksites	The permits granted to worksites by preparing and approving a Special Technical Implementation Study ensures the implementation of the Environmental Term, that is the exclusion of the spatial planning of the worksites in river beds.

B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
		The final landscaping plans have been assigned, are currently being drafted and will be submitted to the Independent Engineer.
B.4	Various construction terms	<p>The requirement for ensuring uninterrupted moving of fauna has already been met by the constructed technical structures of the existing work at the Agrinio bypass which has been built on the State's responsibility.</p> <p>A dossier of article 13 of the Joint Ministerial Decision 11014/2003 has been submitted to EYPE/YPEXODE regarding the optimization proposal of the Aggelokastro I/C in order to follow the procedure for the environmental permit (ref. no. J/V 5400/20-10-08)</p>
B.5	Superficial runoffs	<p>The hydraulic works are already built at the largest part of this section. Where hydraulic designs (non-completed parts) are required, these are being prepared and will be submitted to the Independent Engineer.</p> <p>More specifically, with respect to the Aggelokastro I/C, the hydraulic design IC-C-EN-S113N-IJ-0200-203-HYD-FL.00000.00.01-B has already been submitted and approved (Approval Certificate: IC0003/10-07-2008, Code: IC.U.IE.S113N.MO.0200.000.A). The approved design ensures the implementation of the environmental term. Moreover, the largest part of the alignment in the area has been conducted over a cut and therefore, there will be no need for flood prevention at the adjacent agricultural areas.</p> <p>There are no irrigation networks in the area that could be affected by the works performed.</p>



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C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.1	Water protection - Liquid waste	Liquid waste is being managed based on the relevant terms. An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up.
C.2	Air and noise protection	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up.</p> <p>In particular with respect to dust, based on the works foreseen, the following are implemented:</p> <ul style="list-style-type: none"> • Worksite roads are sprang with water on a regular basis. • The trucks that transfer materials are overloaded and all trucks transferring loose materials will be covered. • The trucks drive on the existing asphalt-layered road before they exit the worksite. Despite this, the existing worksite network is being cleaned to remove any residuals (dirt, stones, etc.)
C.3	Noise - Movable noise barriers - Vibrations	<p>With respect to the noise during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures to resolve noise problems in accordance with the environmental terms has been drawn up. The Program will be presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p> <p>When needed, sound measurements will be conducted at the locations indicated by the Environmental Term d9c.</p>
		When the sound measurements result in a noise level higher than the permitted limits, measures will be taken, among which is the placement of temporary noise barriers.
C.4	Solid and hazardous waste	<p>With respect to domestic waste disposal, an agreement with the Municipality of Strato has been made (there is a relevant document) to collect waste in special bins using garbage trucks.</p> <p>There is an agreement for the disposal of mineral oils with ELTEPE S.A. (relevant agreement).</p> <p>Furthermore, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p>
C.5	Fire prevention	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up.</p> <p>In any case, all the content of the Special Conditions of Contract should be applied.</p>

C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.6	Safety / pollution caused by accident	<p>An Intervention Plan which is a part of the Policing and Fire Fighting Agreement between the Concessionaire and the Ministry of Internal Affairs has been drawn up.</p> <p>The Intervention Plan for Emergency Situations specifies measures to timely collect and remove hazardous substances while preventing pollution of the water/soil resources, etc.</p> <p>This Intervention Plan includes all measures/required equipment etc. that will be needed in case of accident and leakage of non-biodegradable substances, including the necessity to construct Pollution Control Units.</p> <p>In the case of accidents, adsorption materials such as sand, chippings or a special geotextile will be used immediately after run out. Such materials will exist in the central worksite for immediate use. Their after-use-disposal will be carried out in accordance with the instructions for disposing toxic waste.</p>
C.7	Public Utility Organizations – traffic settlement	<p>The vertical roads, the infrastructure works, the structures of the slab-paved culverts and the majority of the side roads have been constructed during a previous contract work and have been foreseen in the relevant design. The design of the remaining side roads is under development and will be submitted to the Independent Engineer.</p> <p>During the construction phase, the existing mass transport infrastructures are not blocked between the residential districts.</p> <p>The traffic of agricultural machinery is controlled via regular observance of the environmental terms.</p>

¹ It is important to note that the Joint Ministerial Decision No. 84982/96/11-04-1997 that describes the Environmental Terms for Agrinio bypass, does not provide for any terms related to safety/pollution caused by accident. Nevertheless, the renewal of the Environmental Terms for the said section, in accordance with the Joint Ministerial Decision No. 105886/3-7-08 takes into account the Joint Ministerial Decision No. 142128/26-7-05 entitled 'Approval of environmental terms for the project Ionia Odos'. Antirio – Kefalovryso (Southern end of Agrinio bypass). In the Joint Ministerial Decision No. 142128/26-7-05, terms id8, d11 and d19 concerning the pollution caused by accident for the section 1 of Ionia Odos Motorway, are listed in the table of the Agrinio bypass.

**NORTHERN END OF AGRINIO BYPASS (KOUVARAS) – SOUTHERN END OF ARTA
BYPASS (KOMBOTI) & NORTHERN END OF ARTA BYPASS (FILIPPIADA) –
IOANNINA (ELEOUSSA)**

Joint Ministerial Decision 141564/25.07.2005

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
A.1	Installation permits for any activity or to facilitate the completion of various works.	<p>All foreseen by the legislation permits and approvals, including the environmental licensing possibly required, will be obtained, when needed.</p> <p>The relevant Special Technical Implementation Studies (STIS) for all required sites (quarries, borrow pits, disposal sites and worksites) have been submitted to the Service and their approval is expected. The submission of the studies as well as the progress of the approval procedure are as follows:</p> <p><u>Borrow pits</u> Pinakoulia location: Submission to the Service with Protocol No. 102908/04.04.08 and 2853/IM/εσ/01.04.08. Approved with document: 138434/03-07-2009. A STIS is being implemented for Makryvouni area at the Community of Perdika, Municipality of Agios Dimitrios (BP14).</p> <p><u>Quarries</u> Agios Georgios, Glykorizo area: Submission to the Service with Protocol No. 101995,06/03/08 and 2525/IK/ΕΣ/05.03.08. Selitoura location: (ref. no 2196.03/02/09 and 6871/IM/kla/30.01.09). The Service's approval is expected.</p> <p><u>Disposal pits</u> A STIS has been submitted for 9 proposed sites and 10 alternative sites at Kouvaras I/C – Arta I/C with ref. no: 6757/23.01.09 and 136226/10.02.09. The Service's approval is expected. At CH. 176+000 to CH. 196+600 9 sites were investigated in terms of environmental suitability: E31 (CH.173+800), E34 (CH.176+200), E35 (CH.177+200), E36 (CH.178+600), E37 (CH.180+450), E38 (CH.181+200), E39 (CH.182+500), E42 (CH.182+500) and E50 inactive quarry at Pedini. A STIS is being drawing up giving priority to sites located from CH. 173+800 to CH. 178+600.</p> <p><u>Gravel extraction</u> Prossilio location: Submission to the Service with Protocol No. 100473/18.01.08 and 2026/IK/ΕΣ of 14.01.08. The Service's approval is expected.</p> <p><u>Worksites</u> A STIS with ref. no. 107730,05/09/08 and 4759/05.09.08 has been submitted for Kambi and Gorgomylos locations. The STIS with ref. no. 136719.</p>

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
		<p>At Agia Triada location – CH. 176+000 there is a relevant approval from the Service with ref. no. 136713/23-02-09. “Ambela tunnel exit” location – CH. 193+000 there is a relevant approval from the Service with ref. no. ΕΥΠΕ/136713/23-02-09.</p> <p>The permit from the relevant Forest Service was required for all works performed this particular period. More specifically:</p> <p>a) Approval to intervene by opening access roads in order to perform geotechnical investigations (document with ref. no. 6589/23.01.09 and positive reply from the Forest Service of Preveza 212/23.02.09)</p> <p>b) Permit to establish a sand/gravel extraction site at Prosilio (document with ref. no. 9087/05.05.09)</p> <p>c) Felling works within occupancy range from Menidi to Sykoula (document with ref. No. 6943,04.02.09 and positive reply from the Forest Service of Amfilohia 2054,22.05.09).</p> <p>With respect to the ancillary works, the required process in line with Law 998/1979 precedes the submission of the STIS: Regarding the proposed locations for the disposal sites, a relevant document will be submitted to the Forest Service.</p> <p>With respect to the abrogation of re-forestation, in accordance with Law 3555/2007 (ratification of the Concession Agreement)/ Article 4/ par. 4a and Law 2445/1996/ Article 2/ par. 1c, <i>'The occupancy, reclamation or coverage of forests or forest areas that are included in the boundaries specified in the designs of Annex 7 and in accordance with the terms and conditions of the agreement are permitted.'</i> This law approves the change of use, revokes the re-forestation and grants intervention permits and permits for felling works to the above sites'.</p>
A.2	Archaeological Services	<p>Before layout planning and installation of the worksites, the opinions on the Environmental Term 12a will be taken into account.</p> <p>Regarding the Environmental Term d15, the section from Amfilohia I/C to Komboti I/C and the location "Paliokoulia" were taken into account as to their significance during the phase of the future design preparation.</p> <p>The relevant Archaeological Service was notified before the commencement of the works performed this particular period. More specifically:</p> <p>a) Approval to intervene by opening access roads in order to perform geotechnical investigations (document with ref. no. 6590/23.01.09 and positive reply from the Antiquities Service 299/23.02.09)</p> <p>b) Opening of access roads in order to perform drilling works to the ΑΓ and 18th Antiquities Service.</p> <p>c) Intervention within occupancy range at Ionia Odos to the ΑΣΤ' Pre-historical and Classical Antiquities (document of 28.05.09)</p>



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A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
		<p>d) Consultation concerning the delimitation of the quarry for aggregates at Pinakoulia location to the 18th Byzantine Antiquities Service of Arta – Preveza (document with ref. no. : 7548/09.03.09 and positive reply from the Service with ref. no. 386/22.06.09)</p> <p>e) Consultation concerning the sand extraction site at Prosilio to the 18th Byzantine Antiquities Service of Arta – Preveza (document with ref. no. 11444/15.06.09 and positive reply from the Service with ref. no. 1303/22.06.09).</p> <p>The alignment of the project in the area of "pente pigadia" follows exactly the approved change. Consequently and based on the findings of the Special Environmental Measures, the proximity of Frourio and the environment are not affected by the area.</p>
A.3	Borrow pits – Quarries	The need for delivery is mainly covered by the excavation products and any further needs estimated will be ensured by the sites referred to in paragraph A1.

B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
B.1	Buildings - Toll Stations - MSS - O&M CC	With respect to the environmental permit of the new toll stations for Motorists Service Stations/O&M Control Centers, the relevant permit procedures shall be followed.
B.2	Disposal / Excavations / Explosives	<p>The Environmental Term d9 has been taken into account in order to find possible sites to dispose materials and has also been taken into account for the preparation of the respective Special Technical Implementation Studies that will be submitted to EYPE. The implementation of the term with respect to the protection of water recipients from the disposed soil material is directly controlled via the Environmental Monitoring & Control Program.</p> <p>All redundant excavation materials (after separation) will be transferred to the disposal sites approved.</p> <p>According to the layout planning design of the Ambela tunnel exit (IC-C-CO-S323N-MO-0200-000-TUN-PRX-FL.093.IS.01.01-0 and IC-C-CO-S323N-MO-0200-000-TUN-GTD-FL.193.IS.01.01-0) no surface excavations arise at the front >5m, except for the temporary ones. The layout planning of the front will be carried out via excavation and re-embankment. The design will be inspected in order to ensure that it complies with the environmental term.</p>
B.3	Rehabilitation/ Worksites	<p>It has been ensured that the layout planning of concrete and asphalt mix production units abide by the afore-mentioned restrictions, as specified in the Special Technical Implementation Studies submitted.</p> <p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services. The content of terms d13 and d14 will be examined when there is a need for such installations.</p> <p>For the section from CH. 170+000 to 196+000 a concrete production plant is currently being used with the environmental term in force (Prefectural Authority of Ioannina 5510/18-07-05 – amendment of renewal with ref. no. 5038/12.9.00) and operation license.</p> <p>Site clearance has been carried out within the occupancy zone of the project.</p> <p>No need for reconstruction of any site during the report time period has arisen, but in any case, the term will be observed. The observance of the term will be controlled by the Environmental Monitoring & Control Program.</p> <p>It has been ensured that the relevant landscaping plans are assigned and drawn up in order to be submitted to the Independent Engineer.</p>
B.4	Various construction terms	<p>i) The Terovo I/C at CH. 175+708 has been included in the Finalized Design (Ref. no. IC-C-CO-S322N-PRO11353/10-06-2009).</p> <p>ii) A tunnel with an approximate length of 900m has been included in the Finalized Design, a layout planning design of the tunnel is</p>

B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
		<p>currently under preparation and the exit layout planning design has been submitted. IC-C-CO-S323N-MO-0200-000-TUN-PRX-FL.093.IS.01.01-0 & IC-C-CO-S323N-MO-0200-000-TUN-GTD-FL.193.IS.01.01-0</p> <p>iii) The Finalized Design includes a hypsometrical lowering. In the area of the overpass at Episkopiko, the embankments have a height of 3m (Motorists Service Station - Episkopiko - height of 4m) – (Prot. No. IC-C-CO-S323N-PRO6595/MC/js/2009).</p> <p>The term that ensures access to wild fauna will be taken into account during the construction phase if there are parts of the project in a distance less than 300m from the Lake Amvrakia.</p> <p>The compliance with the term about modernization, optimization, expansion or modification of the project is being reviewed in terms of Environmental Impact Assessments of the final designs so that there is compatibility of the design phase with the requirements of this term. It has been included in the designs to be prepared and also during the construction phase.</p> <p>Various proposals to be reviewed have been submitted to the Service (EYDE/EPA & IO) that concern optimizations of the alignment. The Service's opinion is expected in order to further proceed to the obtainment of the environmental permit as provided by article 13 of the Joint Ministerial Decision 11014/703/Φ104/14.3.2003, (OGG 332B).</p> <p>Following the Service's opinion (EYDE/EPA & IO) on the optimization proposals submitted, dossiers of article 13 of the Joint Ministerial Decision 11014/2003 shall be submitted to EYPE/YPEXODE in order to begin the amendment of the Environmental Terms.</p>
B.5	Superficial runoffs	<p>The relevant hydraulic designs in which the necessary terms are taken into account have been assigned, prepared and will be submitted to the Independent Engineer.</p> <p>The term for holding the embankment is taken as a fact for the preparation of the designs.</p> <p>The term for protection measures from corrosion of natural slopes is taken into account at the hydraulic designs.</p>

C. WORK-SITE MANAGEMENT ISSUES		
No.	ACTIVITY	PROGRESS
C.1	Water protection - Liquid waste	An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.
C.2	Air and noise protection	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up.</p> <p>In particular with respect to dust, based on the works foreseen, the following are implemented:</p> <ul style="list-style-type: none"> • Worksite roads and piles of materials are regularly wet. During the preparation of this report, there was no need to frequently wet the area due to weather conditions. • The trucks that transfer materials are overloaded and all trucks transferring loose materials will be covered. • During the drilling works, a mechanical equipment will be used that will hold dust. • The trucks will be cleaned before they exit the worksite and the existing road network that will be used to reach the worksites will be regularly cleaned from residuals. <p>The specifications and stations placement study is being under development and will be submitted to the Service for approval. The operation of the station is related to the operation phase of the project.</p>
C.3	Noise - Movable noise barriers - Vibrations	<p>With respect to the noise during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures to resolve noise problems in accordance with the environmental terms has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p> <p>The Acoustics Study for noise protection under development examines the areas with a distance less than 200m from the town limits as well any existing sensitive uses in areas outside the town limits. This term is included in all finalized road works designs and its implementation in the Environmental Impact Assessments is analysed so that the possible installation of noise barriers are taken into account in a distance of 200 m from the town plan.</p> <p>Following the sound measuring process, if the worksite noise produced exceeds the applicable sound limits, then the issue should be addressed using the Environmental Management Plan and the appropriate corrective measures, among which is to place temporary noise barriers. In any case, no sonorous works will be performed when worksites are adjacent to residential areas in order to avoid breaching of the peace.</p>

C. WORK-SITE MANAGEMENT ISSUES

No.	ACTIVITY	PROGRESS
		<p>The Environmental Management Plan and the Environmental Monitoring & Control Program controls compliance with the applicable legislation for noise. In any case, the legislation applicable on noise is referred to in term c.</p> <p>Such works have not occurred yet. When construction works with vibrations are conducted, the parameters referred to in the Environmental Term will be monitored via vibration monitoring programs and if they exceed the limits, the appropriate measures will be taken.</p>
C.4	Solid and hazardous waste	<p>With respect to waste management during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p> <p>With respect to worksites of the project at CH. 118+350 – CH. 129+629 and from CH. 145+706 – CH. 170+000, an agreement with the Municipality of Xerovounio and Filipiada has been made on the disposal of urban waste which is collected in special bins of the Municipalities using garbage trucks. There is an agreement for the disposal of mineral oils with ELTEPE S.A. (relevant agreement).</p> <p>With respect to worksites of the project at CH. 170+000 – CH.196+000, the approved subcontractors manufacturing area is currently being used, where the term constitutes an environmental term of the installation. An inspection was carried out as described in the Environmental Monitoring & Control Program and the results showed full compliance with the term (inspection checklist 07/09). Full compliance has also been ensured to the construction sites (box culverts) at the same section.</p>
C.5	Fire prevention	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up.</p> <p>Is has been ensured that all machinery have fire extinguishers and after the commencement of the works, all fire prevention measures are inspected.</p>
C.6	Safety / pollution caused by accident	<p>The relevant signage will be installed at the worksites before the commencement of the works, as described in the Special Conditions of the Project and the relevant worksite signage or traffic studies required.</p> <p>The Intervention Plan which is a part of the Policing and Fire Fighting Agreement between the Concessionaire and the Ministry of Internal Affairs has been drawn up.</p> <p>The Intervention Plan for Emergency Situations specifies measures to timely collect and remove hazardous substances while preventing pollution of the water/soil resources, etc.</p> <p>This Intervention Plan includes all measures/required equipment etc. that will be needed in case of accident and leakage of non-biodegradable substances, including the necessity to construct Pollution Control Units.</p>

C. WORK-SITE MANAGEMENT ISSUES		
No.	ACTIVITY	PROGRESS
		<p>A risk analysis study (accidental pollution) has been submitted with ref. no. IC-L-CO-S215N-PRO5876/EM/em on 17/11/2008 for the section at Amvrakia.</p> <p><u>A risk analysis study is currently under development for Ambela tunnel.</u></p>
C.7	Public Utility Organizations – traffic settlement	<p>The networks have been designed and the relevant documents with all involved Public Utility Organizations have been submitted (in accordance with par 7 of the Special Conditions of Contract) in order to proceed to the necessary actions. The data have been given to the Designers/Consultants in order to take it into account when drawing up their designs.</p> <p>The term on searching the ability to relocate the alignment of the road axis under development has been taken into account during the preparation of the designs, a fact which is documented via the Environmental Impact Assessments of the final plan. In accordance with the submitted Final Road Work Designs and also with the Environmental Impact Assessments for subsections 302 (IC-C-CO-S322N-CW-0200-000-ENV-EPR-RP.000-01-01-0/11-06-2009) and 303 (IC-C-CO-S323N-CW-0200-000-ENV-EPR-RP.000-01-01-0/26-05-2009), the alignment does not cut the approved boundaries of the villages and passes at a distance greater than 100m from them. Small residential units that are located near the project are the following: Pente Pigadia, Briga, Krounes. They are small agricultural areas with non-delimited districts and old installations. Furthermore, no building comes into contact with the project.</p> <p>The observance of the term on the retention of access to the villages/towns is controlled through the implementation of the Environmental Terms. Within the time period of this report, no need to construct structures that block access to the said part of the motorway has arisen. Access to neighbouring properties is not blocked.</p>

ARTA BYPASS

(Joint Ministerial Decision 120756/96/03.06.1997, Joint Ministerial Decision 132550/31.07.2003 & Joint Ministerial Decision 137938/31.12.2003)

A. PERMITS & APPROVALS		
No.	SUBJECT	PROGRESS
A.1	Installation permits for any activity or to facilitate the completion of various works.	<p>During the preparation of this report, no need for such installations has arisen and the materials are covered by licenses installations of subcontractors in the area (concrete is supplied by Betodomiki S.A. which holds the relevant environmental permit). Furthermore, An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up.</p> <p>Service is performed by the offices of the Joint Venture at Kambi, Arta. There are two worksites at Kambi and Gorgomylos with ref. no. EΥΠΕ 107730/05.09.08. Furthermore, An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for all works referred to in the environmental terms, has been drawn up.</p>
A.2	Archaeological Services	Due to the nature of the works (optimization of the existing road) no updating and permit was required by the responsible Archaeological Service. If there is such a requirement, the respective term will be observed.
A.3	Borrow pits – Quarries	No works or activities during the present report period were conducted and therefore there is no need for such installations. The works and the materials will be covered by already licensed installations of subcontractors in line the Environmental Term d2b.

B. CONSTRUCTION ISSUES		
No.	SUBJECT	PROGRESS
B.1	Buildings - toll stations - Motorists Service Stations - O&M Control Centers	With respect to the environmental permit of any new toll stations for Motorists Service Stations/O&M Control Centers, the relevant permit procedures shall be followed.
B.2	Disposal / Excavations / Explosives	Due to the nature of the works (optimization of the existing road) no additional areas were required. Disposal takes place within the set zone, is temporary and covered until they are re-used.
B.3	Rehabilitation/ Worksites	<p>Service is performed by the offices of the Joint Venture at Kambi, Arta. There are two worksites at Kambi and Gorgomylos with ref. no. EYΠE 107730/05.09.08. In the event of use such sites, the term will be observed after the completion of the works.</p> <p>The final landscaping plans have been assigned, are currently being drafted and will be submitted to the Independent Engineer.</p> <p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures for the implementation of landscaping works, has been drawn up.</p>
B.4	Various construction terms	- -
B.5	Superficial runoffs	The said requirements of these Environmental Terms mainly concern the existing project. Moreover, all environmental issues related to the design are inspected upon submission of the Design to the Independent Engineer and are documented by the Environmental Protection Report, which accompanies each Design.

C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.1	Water protection - Liquid waste	<p>With respect to waste disposal, an agreement with the Municipality of Xerovounio and Filipiada has been made (there is a relevant document) to collect waste in special bins using garbage trucks.</p> <p>There is an agreement for the disposal of mineral oils with ELTEPE S.A.</p> <p>Furthermore, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p>
C.2	Air and noise protection	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include protection measures for all works referred to in the environmental terms, has been drawn up.</p> <p>In particular with respect to dust, based on the works foreseen, the following are implemented:</p> <ul style="list-style-type: none"> • The roads are regularly wet provided that they are not layered with asphalt. • The trucks that transfer materials are overloaded and all trucks transferring loose materials will be covered. • The trucks drive on the existing asphalt-layered road of the Arta Bypass before they exit the worksite. Despite this, the existing worksite network will be cleaned to remove any residuals.
C.3	Noise- Movable noise barriers	<p>With respect to the noise during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures to resolve noise problems in accordance with the environmental terms has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p>
C.4	Solid and hazardous waste	<p>With respect to waste disposal, an agreement with the Municipality of Xerovounio and Filipiada has been made (there is a relevant document) to collect waste in special bins using garbage trucks. There is an agreement for the disposal of mineral oils with ELTEPE S.A. (relevant agreement).</p> <p>Furthermore, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management which will include control procedures in compliance with the environmental terms, has been drawn up. The Program has been presented to the joint venture's supervising engineers, as well as to any subcontractors that will provide the joint venture with services.</p>



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C. WORK-SITE MANAGEMENT ISSUES		
No.	SUBJECT	PROGRESS
C.5	Fire prevention	All works at this section are performed in isolated areas near the Art Bypass. Service is offered by the offices of the Joint Venture at Kambi, Arta. It has also been ensured that there are fire extinguishers at all machinery used at Arta Bypass.
C.6	Safety, pollution caused by accident	The Intervention Plan which is a part of the Policing and Fire Fighting Agreement between the Concessionaire and the Ministry of Internal Affairs has been drawn up. The Intervention Plan for Emergency Situations specifies measures to timely collect and remove hazardous substances while preventing pollution of the water/soil resources, etc. This Intervention Plan includes all measures/required equipment etc. that will be needed in case of accident and leakage of non-biodegradable substances, including the necessity to construct Pollution Control Units.
C.6	Public Utility Organizations – traffic settlement	It is about the existing section of the motorway and the Environmental Terms concern the previous contract work. After all, all issues related to the design are inspected upon submission of the Design to the Independent Engineer and are documented by the Environmental Protection Report, which accompanies each Design.