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THE CONSTRUCTION PHASE (B' SEMESTER 2013)**

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**PROJECT: "DESIGN – CONSTRUCTION – FINANCING – OPERATION – MAINTENANCE AND EXPLOITATION OF THE
PROJECT "IONIA ODOS MOTORWAY FROM ANTIRIO TO IOANINA, PATHE ATHENS (METAMORFOSSI I/C) –
MALIAKOS (SKARFIA) AND PATHE CONNECTING BRANCH SCHIMATARI – CHALKIDA"**



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**SECTIONS: a. IONIA ODOS b. PATHE (Metamorfossi – Skarfia) &
c. CONNECTING BRANCH OF PATHE SCHIMATARI - CHALKIDA**

- i. "Ionia Odos" motorway, of an approximate length of about 196 km, from Antirio to Egnatia I/C
- ii. PATHE motorway, of an approximate length of 172,5 km, from Metamorfossi I/C to Skarfia
- iii. PATHE connecting branch from Schimatari to Chalkida

Issue No.	1.0	PREVIOUS Issues	
Date	20.01.2014	Number	Date
Prepared	EURO IONIA J/V		
Reviewed	Health, Safety and Environment Department Stavros Karapanos		
Approved	General Director of EuroIonia J/V Kiriakos Vavarapis		



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**IONIA ODOS MOTORWAY
FROM ANTIRIO TO IOANINA**

**PATHE MOTORWAY FROM METAMORFOSSI TO SKARFIA
PATHE CONNECTING BRANCH FROM SCHIMATARI TO CHALKIDA**

CONCESSIONAIRE OF THE PROJECT: **NEA ODOS S.A.**
CONSTRUCTOR: **EURO IONIA J/V**

JANUARY 2014



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1. GENERAL INFORMATION

This semiannual progress report on the implementation of the Environmental Terms during the construction phase includes briefly some general information about the project and a table showing the biannual progress report for the **B' Semester of 2013**. The table has been supplemented by observations and inspections that took place during the construction works that have been implemented, and procedures as outlined in the Environmental Monitoring Control Program of the project.

1.1 DESCRIPTION OF THE PROJECT

The scope of the whole project is the design, financing, construction, operation and maintenance in accordance with the Concession Agreement, which was ratified by Law 3555/2007:

“DESIGN - CONSTRUCTION - FINANCING - OPERATION - MAINTENANCE AND EXPLOITATIO OF THE PROJECT IONIA ODOS MOTORWAY FROM ANTIRIO TO IOANINA, PATHE ATHENS (METAMORFOSSI I/C) - MALIAKOS (SKARFIA) AND CONNECTING BRANCH PATHE SCHIMATARI – CHALKIDA.”

It should be noted that, under the Law 4219/2013 (OGG 269A/11-12-2013) the Amendment Agreements of the concession agreements of the major road projects, including the IONIA ODOS project, have been ratified.

More specifically, pursuant to Article 3 “*Ratification of the Amendment Agreement of the Concession Agreement Provisions of the Project on the Design, Construction, Financing, Operation, Maintenance of Ionia Odos motorway from Antirio to Ioanina, Athens PATHE (Metamorfossi I/C) – Maliakos (Skarfia) and Connecting Branch of PATHE Schimatari – Chalkida*”, the Agreement dated 28.11.2013 amending the Concession Agreement



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Provisions, apart from its annexes, in accordance with Articles 37.1 and 37.2 of the Concession Agreement dated December 19, 2006, as ratified by Article (1) of Law 3555/2007, has been ratified and enacted as Law. The text of the Amendment Agreement is annexed as Appendix C of Law 4219/2013 and constitutes an integral part of Article (3) of that Law.

The provisions of the Amendment Agreement include the amendment of Article 4.2.2 based on which the Basic Design of the section between Riza I/C (CH 6+000) and Klokova I/C is amended to a new alignment of twin tunnels, each one measuring around 2,9 km of length, which does not affect the existing National Road thus being able to operate as an alternative non-tolled route. The above amendment of the Basic Design applies since, based on 4628/2013 Decision of Department E' of the Council of State, the Environmental Terms for this section -JMD 142128/25-07-2005- have been partly deemed (for the said section from Riza I/C to Klokova I/C) to be annulled.

This annual progress report on the implementation of the environmental terms during the construction phase refers to a part of the concession agreement and includes specific sections of the "IONIA ODOS" Motorway, PATHE (Metamorfossi – Skarfia) and PATHE Connecting Branch of PATHE Schimatari – Chalkida:

IONIA ODOS

1. Agrinio – Southern End of Agrinio Bypass (Kefalovryso)
2. Agrinio Bypass
3. Northern End of Agrinio Bypass (Kouvaras) - Southern End of Arta Bypass (Kompoti) and Northern end of Arta Bypass (Filippiada) - Ioanina (Eleousa)
4. Arta Bypass



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PATHE (Metamorfossi – Skarfia)

1. Metamorfossi – Iliki
2. Iliki – Kastro
3. Kastro – Tragana
4. Tragana – Arkitsa
5. Arkitsa – Ag. Konstantinos

PATHE Connecting Branch Schimatari – Chalkida

1. Schimatari - Chalkida

For each one of these sections, the below mentioned environmental terms have been issued:

The construction works and the operation of the said sections of the project are governed by the environmental terms described in the following Joint Ministerial Decisions (JMD):

IONIA ODOS

Antirio - Southern end of Agrinio bypass (Kefalovryso)

- JMD 142128/25.07.2005 Environmental Terms Approval of the Ionia Odos project: Antirio Kefalovryso (Southern End of Agrinio Bypass).
- JMD AMENDEMENT “as regards the alignment of the roadway of the above project in the areas of Vassiliki, Evinos and Antirio river and the small improvements along the aforementioned approved project” (Decision no. 166142/13.02.13).



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Agrinio Bypass

- JMD 84982/96/11.04.1997 Environmental Terms Approval for the construction and operation of the project: “Motorway of Western Greece (Ionia Odos)” in the “Agrinio Bypass from CH. 0+000 to CH. 34+401 or CH. 34+811” in the prefecture of Aitoloakarnania.”
- JMD 105886/03.07.2008 Extension of No. 84982/96/11.04.1997 JMD on environmental terms approval of the project “Motorway of Western Greece (Ionia Odos)” in the “Agrinio Bypass” from CH. 0+000 to CH. 34+401 or CH. 34+811” in the Prefecture of Aitoloakarnania.”
- JMD 144713/23.09.2009 Amendment of No. 84982/96/11.04.1997 JMD on environmental terms approval, as amended by No. oik.105886/03.07.2008 JMD, EPO, the project “Western Greece Motorway. (Ionia Odos) in the “Agrinio Bypass” from CH. 0+000 to CH 34+401 or CH. 34+811 in the prefecture of Aitoloakarnania”

Northern End of Agrinio Bypass (Kouvaras) – Southern End of Arta Bypass (Kompoti) and Northern End of Arta Bypass (Filippiada) - Ioanina (Eleousa)

- JMD 141564/25.07.2005 Environmental Terms Approval for the “Ionia Odos” project Northern End of Agrinio Bypass (Kouvaras) – Southern End of Arta Bypass (Kompoti) and Northern end of Arta Bypass (Filippiada) - Ioanina (Eleousa).

Arta Bypass

- JMD 120756/96/03.06.1997 Environmental Terms Approval for the construction and operation of the project ‘Ioanina - Antirio National Road, Section of Filippiada - Arta Bypass, from CH. 60+000 to CH. 82+000 starting from Ioanina, at the Prefectures of Preveza and Arta, including section of almost 1 km of the road linked with the city of Arta.



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- JMD 132550/31.07.2003 Modify the Common Ministerial Decision Approval of Environmental Terms for the construction and operation of the project “National Road of Ioanina - Antirio, Section of Filippiada – Arta Bypass, from CH. 60+000 to CH 82+000 starting from Ioanina, at the Prefectures of Preveza and Arta, including section of almost 1 km of the road linked with the city of Arta.
- JMD 137938/31.12.2003 Joint Ministerial Decision Amendment of the Environmental Terms Approval for the construction and operation of the project “Ioanina - Antirio National Road, Section of Filippiada – Arta Bypass, from CH. 60+000 to CH. 82+000 starting from Ioanina, at the Prefectures of Preveza and Arta, including section of almost 1 km of the road linked with the city of Arta.

PATHE (Metamorfossi – Skarfia)

Metamorfossi – Iliki

- JMD 126119/08.02.2007 “Environmental terms approval for the operation and the improvement and maintenance works of Metamorfossi – Iliki section of the PATHE motorway”

Iliki – Kastro

- JMD 36118/94/10.07.1995 “Environmental terms approval for the construction and operation of Athens – Thessaloniki New National Road, Iliki – Kastro section”
- JMD 101617/22.09.2006 “Amendment of the Joint Ministerial Decision no. 36118/94/10.07.1995 on the approval of the environmental terms for the construction and operation of Iliki – Kastro section of PATHE motorway”
- JMD 140792/12.06.2009 “Amendment of the Joint Ministerial Decision no. 36118/94/10.07.1995 on the approval of the environmental terms for the construction and operation of Iliki – Kastro section of PATHE motorway, as amended by JMD no. 101617/22.09.2006”.

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Kastro – Tragana

- JMD 33838/94/10.07.1995 “Environmental terms approval for the Athens – Thessaloniki new national road (Patra – Athens – Thessaloniki – Evzoni motorway (PATHE)) KASTRO – TRAGANA”
- JMD 103909/12.05.2006 “Amendment – Extension of the validity period of the JMD no. 33838/94/10.07.1995, Environmental terms approval for Athens – Thessaloniki for the New National Road (Patra – Athens – Thessaloniki – Evzoni (PATHE)) KASTRO – TRAGANA”
- JMD 139132/30.04.2009 “Amendment of the Joint Ministerial Decision no. 33838/94/10.07.1995 on the approval of the environmental terms for the construction and operation of Kastro - Tragana section of PATHE motorway, as amended by JMD no. 103909/12.5.2006”.

Tragana – Arkitsa

- JMD 36759/94/10.07.1995 “Environmental terms approval for Athens – Thessaloniki new national road (Patra – Athens – Thessaloniki – Evzoni (PATHE)) TRAGANA – ARKITSA”
- JMD 103910/12.05.2006 “Amendment – Extension of the validity period of the JMD no. 36759/94/10.07.1995, Environmental terms approval for Athens – Thessaloniki for the New National Road (Patra – Athens – Thessaloniki – Evzoni (PATHE)) TRAGANA – ARKITSA”.

Arkitsa – Agios Konstantinos

- JMD 39516/94/10.07.1995 “Environmental terms approval for the section of Athens – Thessaloniki new national road (Patra – Athens – Thessaloniki – Evzoni motorway (PATHE)) ARKITSA – AG. KONSTANTINOS”



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- JMD 103908/12.05.2006 “Renewal of the validity period of the Joint Ministerial Decision no. 39516/10.07.1995, Environmental Terms approval for the Athens – Thessaloniki new national road (Patra – Athens – Thessaloniki – Evzoni motorway (PATHE) ARKITSA – AG. KONSTANTINOS”.

PATHE Schimatari – Chalkida Connecting Branch

- JMD 106530/15.05.2000 “Schimatari – Chalkida road improvement design”

1.2 CONTRACTUAL SCOPE

The Design, Construction, Operation and Maintenance of the above Motorways are subject to the Agreement, as follows:

(A) C.P. New Sections and Technical Works which will be designed and constructed by the Concessionaire:

(i) Ionia Odos/Antirio - Agrinio Southern end of Agrinio bypass 42.9 km (GU 1N to 13N) and completion of Agrinio bypass incomplete section of an approximate length of 13.0 km. In the area of Makynia the solution applied is by tunnel under the alignment contained in the EIS as L - A solution.

(ii) Ionia Odos/Northern end of Agrinio Bypass (Kouvaras) - Arta Bypass Beginning (Kompoti) 53.0 km (GU 15N to 18N).

(iii) Ionia Odos/Arta Bypass End - Egnatia Odos 50.0 km (GU 21N to 23N) with A' phase construction works in Egnatia I/C.

(B) Existing C.P. Motorway Sections constructed and operated by and at the expense of the Greek State and the contribution of the European Union and are going to be studied and executed in accordance with the agreement:

(i) Ionia Odos/Arta Bypass section 10.5 km (GU 20Y)



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(C) Motorway New Sections constructed by and at the expense of the Greek State and the contribution of the European Union, for which they can be informed by the services executing these works as follows:

- (i) Ionia Odos/Agrinio Bypass 20.6 km (GU 14N/W)
- (ii) Ionia Odos/Arta Bypass 6.15 km (GU 19N/W)

The project is divided into Geographical Units of the Special Conditions of Contract¹ as follows:

- (A) Concessionaire New Sections (C.P. and L.P.).
- (B) Existing Sections of the Concession Project (C.P.)
- (C) State New Sections (C.P.) constructed and operated by and at the expense of the Greek State which will grant to the Concessionaire the exclusive right of Operation, Maintenance and Exploitation, as regulated by the Concession Agreement.

The Concessionaire's obligations include any temporary connection to the existing network, depending on the time schedule for the completion of the individual sections and the existing conditions.

¹ Agreement between EYDE/YPEHODE and the Concessionaire. The said sections are specified in Table 1-I of the Agreement.



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1.2.1 Project New Sections and technical requirements

The scope of the Project is the “Design – Construction – Financing – Operation – Exploitation and Maintenance of Ionia Odos Motorway from Antirio to Ioanina, PATHE Athens (Metamorfossi I/C) – Maliakos (Skarfia) and Connecting Branch of PATHE Schimatari – Chalkida for thirty (30) years in accordance with its Concession Agreement:

- iv. “Ionia Odos” motorway, of an approximate length of 196 km from Antirio to Egnatia I/C,
- v. PATHE motorway, of an approximate length of 172,5 km from Metamorphossi I/C to Skarfia
- vi. PATHE connecting branch Schimatari – Chalkida

The Project is part of the Trans – European Network. It serves the national traffic gates of Patra, Igoumenitsa and Kakkavia and the interregional traffic.

The Ionia Odos motorway starts at Rio – Antirio Bridge and ends in Egnatia Odos, travelling through the Prefectures of Aitoloakarnania, Arta, Preveza and Ioanina.

It consists of two lanes per traffic lane and of an emergency traffic lane. The width of the motorway on Antirio – Amvrakia I/C is 24.5m with planting in the a middle island with New Jersey; the Amvrakia I/C – Egnatia section is 22.0m with a double New Jersey in the middle island.

The design speed for the Antirio – Amvrakia I/C section is 110 km/hour on the open sections and 100 km/hour on the tunnels, while on Amvrakia I/C – Egnatia is generally 100 km/hour.



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It includes:

19 Junctions

- Antirio I/C at CH. 0+800
- Gavrolimni I/C at CH. 14+270
- Evinochori I/C at CH. 23+300
- Mesologgi I/C at CH. 27+530
- Chaliki I/C at CH. 47+200
- Ag. Ilias I/C at CH. 51+250
- Aggelokastro I/C at CH. 55+500
- Rigani I/C at CH. 60+200
- Kouvaras I/C at CH. 75+500
- Amvrakia I/C at CH. 84+670
- Amfilochia I/C at CH. 101+260
- Kompoti semi-junction at CH. 125+700
- Arta I/C at CH. 135+400
- Filippiada I/C at CH. 147+270
- Ammotopos semi-junction at Ch. 154+230
- Gorgomylos I/C at Ch. 163+110
- Terovo I/C at CH. 175+700



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- Avgo I/C at CH. 187+000
- Egnatia I/C at CH. 96+000

4 Frontal & 10 Lateral Toll Stations

- a. Frontal:
 - Klokova - Mesologgi at CH. 10+100
 - Aggelokastro – Fities at CH. 57+212
 - Kompoti at CH. 111+300
 - Gorgomylos – Avgo at CH. 187+600
- b. Lateral:
 - 2 in Gavrolimni I/C at CH. 14+300
 - 2 in Mesologgi I/C at CH. 27+530
 - 2 in Kouvaras I/C at CH. 75+500
 - 2 in Arta I/C at CH. 135+400
 - 2 in Gorgomylos I/C at CH. 163+110

9 Motorist Service Stations

- Evinochori I/C at CH. 22+400 on 2 sides
- Amvrakia at CH. 81+200 on 2 sides
- Amfilochia at CH. 95+500 on 1 side (right-hand)
- Filippiada at CH. 148+800 on 2 sides



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- Episkopiko at CH. 189+600 on 2 sides

3 Exploitation and Maintenance Centres

(Maintenance, Fire Brigade, Police Buildings)

- Mesologgi I/C at CH. 26+900
- Amfilochia MSS at CH. 95+500
- Filippiada MSS at CH. 148+800

4 Tunnels

- Makynia Tunnel of a length of 542m at CH. 4+000
- Klokova Tunnel of a length of 2950m at CH. 6+380
- Kalydona Tunnel of a length of 1200m at CH. 24+020
- Ampelia Tunnel of a length of 900m at CH. 192+000

9 Bridges > 50m

- Bridge of a length of 67.5 (d) & 102m (a) at CH. 3+850
- Bridge of a length of 254 (d) & 259m (a) at CH. 19+300
- Bridge of a length of 50m at CH. 100+598



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- Bridge of a length of >300m at CH. 118+304
- Bridge of a length of 252m at CH. 158+120
- Bridge of a length of 105m at CH. 162+354
- Bridge of a length of 430m at CH. 166+508
- Bridge of a length of 105m at CH. 167+260
- Bridge of a length of 280m at CH. 183+482
- 10 bridges or wide underpasses of a length of <50m

The motorway of IONIA ODOS also includes the Upper & Underpasses, Retaining wall, Culverts, Parking and Rest Areas etc.

The sections of the Concession Project are divided into forty three (43) Geographical Units (GU), five (5) of which are State's New Sections. Those sections, after their completion, shall be delivered by the State to the Concessionaire, as defined in the C.A., in order to proceed with the additional works concerning the operation and maintenance of the motorway. Up to now, 3 of them have been delivered as shown in the table below.

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GU	SECTION (CH)	Length	Delivered by the State
14 SW	Agrinio Bypass IONIA CH 55+600 -76+272	20,672	Delivered
19 SW	Arta Bypass IONIA CH 129+053 -135+200	6,147	Pending
41 SW	Loggos – Ag. Konstantinos PATHE CH 160+393 -171+693	11,300	Delivered
42 SW	Ag. Konstantinos – Kamena Vourla - Skarfia PATHE CH 171+693 – 181+480	9,787	Delivered
43 SW	Schimatari – Chalkida PATHE	11,000	Pending

The following tables set out the terms of the Ministerial Decision Approval of Environmental Terms relating to construction for each part separately, and by environmental condition

For each term listed in the table, there is a commentary on course compliance or potential problems encountered or observed in relation to compliance.

2. TABLES FOR MONITORING ENVIRONMENTAL CONDITIONS



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2.1 ANTIRIO – SOUTHERN END OF AGRINIO BYPASS (KEFALOVRYSSO)
**(JMD 142128/25.07.2005), JMD 166142/13.02.2013 Amendment decision with prot.
no. 142128/25.07.2005**



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A/A Decision	Environmental Terms - Description	Description of Progress - Problems
b.	Specific limit values of pollutant loads and concentrations emission according to the applicable provisions	<p>All foreseen by the legislation limits are taken into consideration.</p> <p>Hazardous waste is managed under contract by appropriately licensed companies.</p>
c.	Specific limit values of noise level and vibrations according to the applicable provisions	<p>The control, during the construction phase, is conducted in accordance with the current legislation and the limit values specified in this are met.</p> <p>With respect to the noise during the construction of the project, pursuant to the Program for Environmental Management and in terms of Environmental Monitoring Control Program noise measurements are conducted parametrically of the worksite and the construction faces and the results were within the allowable limits. The said measurements are reflected in maps depicting the extent of the construction of the project and the location the measurements were made. The said maps as well as the measurement, which are repeated at regular intervals (monthly), are included in the noise measurement issue, which is submitted with the annual report. For the current time period, no noise measurements were carried out due to suspension of construction works.</p>
d.1	Obligation to comply with the environmental terms	<p>The Environmental Terms and the other contractual obligations regarding the construction phase, have been analyzed in the Environmental Monitoring & Control Program submitted in May 2009 (protocol no. IC-X-CO-S0000-PRO9251/ACH/Kla).</p> <p>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 their services.</p>



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A/A Decision	Environmental Terms - Description	Description of Progress - Problems
d1.1		<p>The Environmental Terms and the other contractual obligations regarding the construction phase, have been analyzed in the Environmental Monitoring & Control Program submitted in May 2009 (protocol no. IC-X-CO-S0000-PRO9251/ACH/Kla).</p> <p>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 their services.</p> <p>There are responsible persons for the implementation of the Environmental Management System and the monitoring of compliance with the E.T.</p>
d1.2	Ensuring credits	All required costs are taken into account when tendering for the construction of this project. To date expenditures for environmental protection are submitted in the annual environmental reports.
d2	Permits and approvals	The procedure for obtaining all necessary permits and approvals in progress, as specified below.
d2.1	Individual projects or activities relating to the construction or operation of the project	<p>The relevant STIS for all required sites (quarries, borrow pits, disposal sites and worksites) have been submitted to EYPE. The submissions of the studies as well as the progress of the approval procedure are as follows:</p> <p>Quarries:</p> <ul style="list-style-type: none"> •QP08 "Kremasti", Municipality of Mesologgi (the 27885/10-08-10 environmental licencing process has been completed. Intervention permits approval for 29,3 acres). Solicitation for 12,8 acres intervention permit (11-2010) and resolicitation (05-2010) have been submitted. There is a positive recommendation to the Forestry Directorate by the Forest Service but the issue appears as a pending one because there is a claim by an individual (ownership declaration). Also, the signing of the contract with the General Secretary of the Region and the submission of guarantee by the consortium is still pending. In any case there is a decision of the Secretary General of the

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A/A Decision	Environmental Terms - Description	Description of Progress - Problems
		<p>Region for the lease of all 42 acres of Kremasti.</p> <p><u>Borrow Pits:</u></p> <ul style="list-style-type: none"> •BP08 location "Skinos", Municipality of Mesologgi (STIS has been returned by EYPE requesting for reforestation removal. Solicitation for 177,73 acres reforestation removal (05-2010) and resolicitation (06-2012) have been submitted. Meetings were held at the Forest Service (11/2012, 2/2013 & 4/2013) to inform the new Head and promote the reforestation removal. The STIS will be resubmitted after reforestation removal. •BP03 location "Karanolaggada", Stamna, Municipality of Mesologgi: solicitations for 16,64 acres reforestation removal (10-2008 & 05-2010). Also, a request for update on the reforestation removal (06-2012) was made. STIS has been returned by EYPE due to lapse of time. Meetings were held in the Forest Service (11/2012, 2/2013 & 4/2013) where it was decided not to continue licensing procedures since the area is problematic and far away from the projects. •BPA1 location "Machaira", Municipality of Nafpaktia: ownership is unclear. The area is claimed by the State. Non approval of the STIS due to location (within zone ΠΦ3 of Mesologgi-Aitoliko National Park) •BPA2 location "Rena", Municipality of Mesologgi: there is no consensus on behalf of the owner. STIS has been returned by EYPE (02-2012). •BPA3 location "Agios Ioannis", Municipality of Mesologgi: it is a forest land, not reforested, but claimed (stated in the land registry as a private one), but the characterization act has become irrevocable (36224/30-05-2011). In order to move to a new study, since the other spaces are proved to be problematic ones (claimed or reforested ones), meetings were held during this semester at the Forest Service of Mesolongi (11/2012, 2/2013 & 4/2013), to identify public land in the region. Following the suggestion of the Forest Service, we made a surveying of the new space (BP A3a) located BP of BPA3. The area is a public forest land, unclaimed and not reforested.

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		<p>During this semester, positive opinions were sent for BPA3a to the competent archaeological services and Forestry. The answer of the Forestry is still pending.</p> <ul style="list-style-type: none"> •BPA4 location "Rema Ragou", Municipality of Mesologgi: negative opinion by the department of Physical Environment of YPEKA and the Management Body of Mesologgi – Aitoliko National Park. Thus, STIS non-approved by EYPE (06-2012). •BPA5 location "Palaomylos", Municipality of Nafpaktia: there is no consensus on behalf of the owner. STIS has been returned by EYPE (02-2012) •BPA6 location "Theotokos", Municipality of Mesolongi: the ownership is unclear. Request and re-request for reforestation removal of 51,75 acres has been submitted. Meetings were held at the Forestry (11/2012, 2/2013 & 4/2013) to promote the reforestation removal. • BP7 "Prapoeri" location, Municipality of Antirio, with decision no. 141904/17-11-09 the EYPE returned the STIS since reforestation removal of the area is required. With decision no. 31739/11.25.10 the J/V requested us to remove reforestation. The Forest Service of Nafpaktos requested us for additional data (08/2011). • 3 Borrow pits (15A, 15B and 15C) in Ano Vassiliki, Nafpaktos (CH. 15+000) (prot. no. 34608/04.03.2011), The study was returned by EYPE (prot. no. EYPE/YPEKA 197065/10.03.2011) in order for a dossier amending AEPO of the main road project to be submitted, in accordance with Articles 6 and 7 of Law 4014/2011. <p>Disposal Sites:</p> <ul style="list-style-type: none"> •Temporary deposits (6 sites) of Kalydona tunnel excavation materials, aggregates and topsoil (STIS under preparation – submission 07/2011). •4 D/P (E1, E2, E3, E4) Municipality of Chalkia. Environmental licensing for E1 (02/2008). It remains the lease of the area (private one) remains.

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		<p><u>Worksites:</u></p> <ul style="list-style-type: none"> • Headquarters: "Kourtouga" location – premises of former 3E bottling plant. No environmental permit is needed. <ul style="list-style-type: none"> • S1.3 Aitoliko Worksite (environmental permit completed 36016/13-05-11). • S1.4 A worksite for Kalydona exit tunnel (environmental permit completed 36015/13-05-11) • S 1.2 Agios Georgios, Mesologgi: STIS approval by EYPE (prot. No. 41505/23/09/09). <p><u>Gravel extractions:</u></p> <ul style="list-style-type: none"> • Gravel excavation RB01 in Kalfa and Paradission positions in Evinos River (J/V approval with protocol no. A/1/08/09/01/5293/09-11-09 EYDE EPA&IO). Those positions were used by the three companies. Under decision of Western Greece Region, the licensed concession for gravel excavation from 'Kalfa' position has been postponed for 7 months (prot. no. 28370/24-08-10). A request for preparing a protocol delivery to the General Directorate of Aitoloakarnania has been submitted (31855/29-11-10). <p>For the current time period, gravel excavations are not executed because of construction works interruption.</p> <p>For the environmental licensing of the ancillary works, the procedures provided for in Law 4014/2011 (Government Gazette 209A/2011) shall be followed.</p>
d2.2		<p>Pursuant to the Environmental Term d2.1, the environmental approvals are given by EYPE after submission of the relevant STIS. The necessary STIS have been elaborated for the relevant authorizations, for which</p>

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		<p>detailed reference is made above. The environmental permitting shall be issued in accordance with Law 4014/2011 (OGG 209A/2011)</p>
d2.3	Works or facilities within areas of forest character	<p>Maintenance works were carried out within the project occupation zone on this semester.</p> <p>Therefore, for the works executed on the said period no permit was necessary by the competent Forest Service because the existing forest areas were located within the occupation zone of the project and in that case Law 2445/96 is in force.</p> <p>For the main project neither the process of intervention permit nor reforestation removal are required. (Law 355/2007 art. 4, par. 4 (a) (OGG 81A/16.04.2007) Law 2445/1996 (OGG 274A), in paragraph 1 of Article (2)).</p> <p>During the reporting period no ancillary works were made.</p>
d2.4	Concrete and asphalt mix production plants	<p>It has been ensured that the layout planning of these plants abide by the afore-mentioned restrictions, as specified in the Environmental Term. This issue is reviewed in the submitted STIS and the implementation of the stipulated protective measures is checked. In particular, as far as the concrete production unit that is installed in Evinos worksite, in Agios Georgios, Mesologgi all the aforementioned restrictions were followed. The installation is around 1000m away from Agios Georgios area and in order to protect Evinos river, two water collection tanks have been constructed.</p> <p>In STIS of Aitoliko, Kalavrouza and Gavrolimni worksites, the term has been taken into consideration.</p>
d2.5	Site clearing	<p>Land reclamations and site clearing were carried out before the suspension of works in motorway sections areas bounded by piles.</p> <p>The term is respected and controlled by the responsible of the consortium Environmental department and the</p>



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		<p>"appointed subcontractors" as described in the Monitoring & Control Environmental Program submitted in May 2009 (protocol no. IC-X-CO-S0000-PRO9251/ACH/Kla/12-05-2009)</p> <p>During the period mentioned by this report, site clearing was not required. STIS provide the restoration of the intervention sites</p>
d2.6	Materials needed for the construction of the project	For all new sites where materials have been delivered, the required STISs have been submitted and approved, as referred to in term d2.1, and the relevant opinion of the responsible Archaeological Services is required.
d2.7	Disposal of the inappropriate excavation materials	<p>So far, no permanent disposal is required in this area. The sites of top soil temporary disposals and piles of aggregates or useful excavation materials were selected in leased land, or within limits of expropriation. Due to the suspension of the works and since the absorption of the materials in the road body would be delayed, STIS have been drawn up for most of the sites. No temporary disposal near streams. In any case, during the suspension of the works, the sites of temporary disposal are systematically monitored in order for the protection of streams to be ensured.</p> <p>The implementation of the E.T. with respect to the protection of water recipients from the disposed soil material is controlled via the Environmental Monitoring & Control Program.</p> <p>The term on the disposal of inappropriate excavation products is a criteria used during searching locations for possible disposal sites and is taken into account during the preparation of the respective studies that are submitted to the EYPE.</p> <p>For the environmental licensing of the disposal sites, the procedures of Law 4014/2011 (OGG 209A/2011) are followed.</p>

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d2.8	All redundant excavation materials	No cases related to excavation materials, which usually include waste or dangerous sewage, have been presented. 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 or free substances in specific deposition chambers or integrated per priority in the body of the Project. During the preparation period of the present report there were no excavation materials, since the project is under suspension.
d3	Archeological Services	Due to the nature of the works completed (maintenance works, equipment removal) the Archaeological Service was not updated during the report period.
d3.1	Localization of antiquities	See attached table "RESERVATION - RELEASE AREAS OF THE PROJECT BY ARCHAEOLOGICAL SERVICES"
d3.2		With respect to the coverage of the expenses incurred during the archaeological surveys, article 1, par. 13.2 of Law 3555/2007 shall apply.
d4	Worksite infrastructure to be established serving the project's needs	The issue concerns the operation of the project.
d5	Stone processing and concrete production plant	The E.T. are followed in the stone processing and concrete production plant that operates in Agios Georgios Mesologgi worksite. The said time period, the concrete production installation has been dismantled, and the other facilities are not operating due to suspension of the works.
d5.1	Bitumen production plants	
		In the worksite area of Aitoliko as well as in the areas of Kalavrouza and Gavrolimni, such installations are



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		<p>provided, while the protection measures of the term refer to the relevant STIS. Their implementation after the installation according to the EMCP (Environmental Monitoring & Control Program) will be checked.</p> <p>The supply of aggregates and concrete, held in the past by legally operating facilities subcontractors - Suppliers, has been stopped due to suspension of works.</p> <p>Bitumen production plants do not exist and when required, either they will be supplied by outside environmentally licensed partner or they will be installed on the licensed worksite areas.</p>
d6	Rubbish	
d6.1	Toxic solids	
d6.2	Pollution of surface and ground waters	<p>With respect to the collection of urban waste, four waste bins of the Municipality of Mesologgi have been placed in the worksite of Ag. Georgios and there is a relevant agreement with the respective Municipality for emptying the bins and transferring the waste to HYTA (landfill site) 4th Geographical Unit of the Prefecture of Aitoloakarnania (there is the relevant document).</p> <p>As regards the waste management during the construction of the project, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes 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 their services.</p> <p>With regard to waste generated by office and warehouses area that has been developed on the premises of 3E factory (Kourtouga), those are collected in bins to split it into recyclable and non-recyclable ones, and are also transported from the Municipal Authority of Mesologgi to HYTA.</p> <p>With respect to the management of used oils, batteries, tires, etc. relevant agreements with licensed</p>



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		<p>management companies have been signed and depending on the constructional procedure and the payment of the temporary containers, they are delivered for further management. While, where appropriate, relevant proof of compliance from suppliers and sub contractors are required. The dangerous waste is temporarily stored in special areas within the worksites, while in some cases the relevant conformance documents are requested by the suppliers and the separate subcontractors.</p> <p>A record of contracts and evidence for the appointed subcontractors is kept in each worksite. During the preparation of this report, no dangerous waste and oils were generated at any worksite because the works were suspended. Before suspending operations, the temporarily stored quantities had been delivered to the administrators, from all worksite areas.</p> <p>The maintenance and washing of vehicles and machines were realized either in licensed worksites with appropriate infrastructure (settling tanks, tank assembly, etc.) or in a licensed external garage or laundry area.</p> <p>As regards the urban waste at the worksite of Ag. Georgios, a sewerage system and a watertight septic tank have been constructed; an agreement on its evacuation and transportation of the waste to biological treatment of the municipality has been concluded with the Municipality of Mesologgi.</p> <p>There is a watertight septic tank at the offices in Kourtouga.</p> <p>A sewage treatment plant was operating in the worksite of Kalydona exit tunnel.</p>
d7	Uninterrupted flow of the surface water	The compliance with this condition is ensured through the development - approval of hydraulic studies, which



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		take into account the E.T.
d8	Emergency plan	<p>The Risk Assessment Study has been elaborated and submitted to the I.E. for the area of Evinos river, J/V letter with protocol no. 27580/ 5-8-10.</p> <p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes control procedures for all works referred to in the environmental terms, has been drawn up.</p> <p>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 their services.</p>
d9	Modification or intervention to an existing infrastructure project	<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. 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 (protocol no. 6206/30-10-2009 for the section from CH. 25+640 to CH. 32+000 and 6207/30-10-2009 for section CH.32+000 to CH. 42+000).</p> <p>See attached table " P.U.O. Networks TABLE"</p>
d10	Construction works on the section of Klokova	<p>The construction works in Klokova section have not started yet.</p> <p>At the current time, due to suspension of works, only maintenance works were executed locally. Therefore, the circulation of the existing ET was not impeded.</p>
d10.1	Circulation of the existing national road	
d10.2		
d10.3		

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d10.4	Makynia	The term is implemented
d11	Worksite signage	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes 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 their services.</p> <p>The Design for temporary traffic arrangements for the construction of UP44 underpass (CH. 23+331.35 – Right Branch and CH. 23+348.51 - Left Branch (Approval ICo0255, 17.05.10) has been submitted and approved by the Independent Engineer (Approval ICo195, 23.03.10).</p> <p>Warning signs and light signals have been placed, where appropriate, during the night. At the current period, because of the suspension of works, maintenance works have been mostly performed locally. Therefore the traffic of the existing National Road was not obstructed.</p> <p>During the drilling for the formation of the faces of Kalydona and Makynia tunnel, incorporated dust containment equipment has been used. As regards the temporary disposals (6 positions) within or outside the expropriation limits, those mentioned in E.T. d2.1 and d.2.7 shall be applicable.</p> <p>During the reference period, due to suspension of works, there was no materials transportation.</p>
d12	Perforations	
d13	Dust	
d13.1		
d13.2	Materials to be transported	
d13.3	Washing the wheels	
d14	Planting works	<p>The relevant landscaping designs have been elaborated and submitted for approval to the Independent Engineer (CH. 17-24, J/V protocol no. EI: 35450/15-04-2011).</p> <p>The relevant landscaping designs are elaborated for the subsections from 11+300 – 14-360, 24+400 – 30+900 (101), 30+900 -36+940 (108) and 36+940 - 43+525 (102).</p> <p>The rehabilitation works and their budget constitute an integral part of each STIS submitted (disposal sites,</p>
d14.1		
d14.2		

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		<p>borrow pits, worksites, etc.).</p> <p>As regards the topsoil of the construction works, care is taken in order to stockpile it and use it in plantings - restorations.</p>
d15	Measures for fire-protection	<p>The term is respected through the implementation of the Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes control procedures for all works referred to in the environmental terms, has been drawn up. In any event, after the commencement of works, the fire measures in the project's machines and the scope of works are controlled and the provided H&S Plan should be adhered to.</p> <p>Special attention should be given to areas that are near forests and fields during the summer months. Emphasis is given in order for the machines located at the project area to be equipped with the provided firefighting equipment. Regarding the premises of the site (offices, workshop, laboratory and concrete preparatory) the adequate firefighting equipment like fire extinguishers, sand and water supply to be provided.</p> <p>For the worksites (Ag. Georgios, Kalydona) the opinions of the responsible Archaeological Services are positive.</p>
d16	Noise	
d16.1		<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 includes control procedures in order to resolve noise problems in accordance with the environmental terms, has been drawn up. Noise measurements were conducted in specific control points using the appropriate equipment in order to monitor the respect of the worksite noise levels more frequently. The measurements were shown in measuring tables with measurement points' graphics and are analytically presented to the Annex of Measurements of the Annual Environmental Terms Reports. No excess of the permitted levels has been</p>
d16.2		
d16.3		
d16.4	Machinery of the project	

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		<p>recorded.</p> <p>During the current semester, noise measurements are not conducted due to suspension of works.</p> <p>Regarding the provision for implementation of noise barriers, concerning the operation phase of the project, with the finalization of road designs, a Special Acoustic Design for Noise Protection (ETME), submitted for approval to EYPE/YPEHODE, will be assigned and produced.</p>
d17	Direct entrance to the tunnel in ancient Kalydona	<p>The layout planning designs of the fronts of Kalydona tunnel have been approved by the I.E. Based on these designs, no surface excavations will be performed at >5m, except for the temporary ones. The layout planning of the fronts will be carried out via excavation and re-embankment. A landscaping design will follow.</p>
d18	Vibrations	<p>During the current semester, no vibration measurements were conducted due to the suspension of construction works.</p> <p>No adverse impact on residents and generally on any anthropogenic structure and archeological sites were generated from the works not previously executed, because of the construction of the road. Also, the settlements nearby to work fronts is Perithori (about 2.5 km) and Agios Georgios (about 2 km).</p>
d19	Rescue – escape of people entrapped in case of emergency in the tunnel of Kalydona.	<p>The term has been taken into account based on the risk analysis study. According to the “Risk Assessment” submitted for Kalydona Tunnel, two (2) transverse arcades, connecting the two branches per around 410m, are foreseen. The ILF Tunnel Risk assessment Final Report has been submitted to the I.E. via letter IC-C-CO-S1000-PRO 7293/MC/js 23/2/09, has been approved by the I.E. via the letter no. IC0035 DAC 5/03/09.</p>
d20	Access to settlements	<p>The issue is controlled through the monitoring of the Environmental Conditions. During the preparation of this report, no need for structures that block access has arisen.</p>



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d21	Passage of wildlife	It is taken into consideration in the designs already elaborated. This matter is also under examination in the Environmental Assessment Reports of the corresponding definitive road designs which are approved by the IE.
d22	Protection from corrosion of the natural slopes	It is taken into consideration in the hydraulic studies submitted for approval to the Independent Engineer.
d23	Proper operation of installations	It concerns the operation phase.
d24	Noise	It concerns the operation phase.
d25	Station measuring wind and air pollution	With respect to the installation of the measurement station, a relevant study will be submitted upon restarting the works, in order to determine any possible locations and submit them for approval to EYPE/YPEHODE. The operation of the station is related to the operation of the project.
d.26	Environmental Service	The EuroIonia Joint Venture has a department of Environment, Health and Safety staffed with the required personnel and external partners. The responsibilities and obligations of the department's staff are described in the Quality Management System of the Joint Venture.
d.26.1		
d.27	Annual Environmental Reports	The E.T. s fulfilled. The J/V submits relevant Reports to the Concessionaire every six and twelve months, shared by the whole consortium. The present report of the said E.T.
d.28	Possibility of relocating the southwest alignment, at CH. 26+100 up to 30+000	The relocation of the S/W alignment is not feasible because of the dispersed settlement. The Final Road Design foresees the raise of the red line in the area of the archeological site so as for the C-C construction not to be appropriate anymore, while the lateral road is located to the entry step of the embankment in order for the noise to be the minimum one. Regarding the location of "Borbora" hill, the Final Road Design foresees the improvement of the slopes and the reduction of the breadth of the excavation. In both positions a landscape restoration of the trenches is suggested. The above proposals have been submitted to the ΛΣΤ' Archeological Service (25928/24-06-10), which recommends in its letter to Ministry of Culture

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		<p>(27956/11-8-10) the approval of the proposal. A positive opinion has been received by the Ministry of Culture (31712/25-11-10).</p> <p>After the relevant opinions by the Ministry of Culture, and for the amendment of the term, the procedure provided by article 13 of the JMD 11014/703/Φ104/14.3.2003 is adhered to. It has been included in the relevant design submitted to EYPE/YPEKA.</p> <p>Also, three designs of the study file 13 have been re-submitted/replaced because of little changes in the area of Mesokampos I/C resulting on demand of the Archeological Service.</p> <p>The aforementioned small modifications have been approved via the JMD 166142/13.02.2013 (prot. no. J/V 39517/05.03.2013)</p>
d.29	<p>The environmental conditions compliance proposed in the EIS (Chapter 8), which accompanies the present, shall apply if the said conditions are not consistent with those mentioned above and the remedies proposed.</p>	<p>They are taken into consideration.</p>



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e1	Local environment - Sensitive elements – Specially Protected Areas.	Sensitive environmental elements (settlements, protected areas and sites) were taken into account during the investigation of borrow sites positions, etc. and the elaboration of the STIS and TIS. The Department of Environment has elaborated a map with the environmental commitments, and pursuant to EIS subsequent documentation, which constitutes a tool for exploring of additional spaces and other works as well as assistance for all persons involved to the construction.
e2	Measures and projects for the conservation of the above elements Those referred to in paragraph d of the present are sufficient.	-
f	Period for which the given environmental approval is valid - Conditions for its review	For the renewal of the environmental conditions the procedures provided for in Law 4014/2011 (Government Gazette 209A/2011) will follow.
g	Modernization, improvement, expansion or modification of the project	The additional EISs on the improvement of the alignment in Evinos River (CH. 19+200 – CH. 22+090), in the area of Vassiliki (CH. 14+300 – CH. 18+000, Antirio I/C, as well as a File of Article 13 (JMD 11014/03)



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		<p>or small changes of section S1, which resulted by the elaboration of the final designs, have been elaborated and submitted by the J/V.</p> <p>The above modifications have been approved via the JMD 166142/13.02.2013 (prot. no. J/V 39517/05.03.2013).</p> <p>For the modernization, improvement, expansion or modification of the project, the provisions of Law 4014/2011 (Government Gazette 209A/2011) are required to be met.</p>
h	Amendment of terms	The amendment of the terms is governed by the provisions of Law 4014/2011 (OGG 209a/2011)
i	AEPO & EIA presence on the worksite	The term is respected.
j	Non-compliance with the E.T.	-



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2.2 AGRINIO BYPASS

**(JMD 84982/96/11.04.1997, JMD 105886/03.07.2008
& JMD 144713/23.9.2009)**



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b	Specific limit values of pollutant loads and concentrations emission	All limits are taken into consideration pursuant to the current legislation.
c	Specific limit values of noise level and vibrations	<p>As regards the noise during the construction phase of the project, pursuant to the Environmental Management Plan and in the framework of the Environmental Monitoring and Control Program, noise level measurements had been realized by an external partner (A.L.A PLANNING PARTNERSHIP (ENVIRONMENT) Ltd.) and no excess of the permitted levels has been recorded. The measurements have been submitted in the annual report of the previous years.</p> <p>As regards the vibrations, no explosions have been realized on the said section of the road.</p>
d1.a	Obligation to comply with the E.T.	A general Environmental Management Plan in terms of the Environmental Monitoring and Control Program, which includes control procedures for all works referred to in the lateral environmental terms, has been drawn up. The Plan has been presented to the joint venture's supervising engineers, as well as to any subcontractors that provide the joint venture with their services.
d1.b	Ensure Compliance with E.T.	
d1.c	Ensuring funds for environmental protection projects	It is taken into consideration



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A/A Decision	Environmental Terms - Description	Description of Progress - Problems
d1.d	Process monitoring planning	A general Environmental Management Plan in terms of the Environmental Monitoring and Control Program, which includes control procedures for all works referred to in the lateral environmental terms, has been drawn up. The Plan has been presented to the joint venture's supervising engineers, as well as to any subcontractors that provide the joint venture with their services. There are people responsible for implementing the Environmental Management Plan and the compliance with the E.T.
d2.a	Licenses and approvals	<p>No new additional sites are required for the said department. When required, the concrete production units and sand production units of Terna – Michaniki J/V, which are coated and environmentally licensed (letter with EYPE protocol number:132637/04.10.07), were used. During the period concerned, no materials from concrete production and sand production units were used. Also, during the works, there is cooperation with companies producing concrete and asphalt, and their procurement is done by the latter. (Ergobeton of Agrinio S.A. and Hefaistos S.A. Their environmental permits exist. The cooperation with the above companies is supported by vouchers and invoices which are in the accounting department.</p> <p>A general Environmental Management Plan in terms of the Environmental Monitoring and Control Program for all activities and facilities including control procedures on those referred to the adjacent environmental conditions has been drawn up.</p> <p>During the said time period, all the construction works have been suspended.</p>
d2.b	Materials required for the construction of the project	-
d2.c		During the said time period, all construction works have been suspended. All products deriving from the foreseen and approved excavation designs were used to manufacture embankments or any other road works, only after they were proved to be appropriate for this purpose (after several laboratory tests).
d2.d	Disposal of inappropriate excavation materials	<p>During the said time period, all construction works have been suspended.</p> <p>The disposals are temporary and within the occupation zone. Furthermore, as regards the disposal of non-appropriate excavation materials, E1 disposal site has been approved for this part of the project (Protocol No.</p>

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		101105/07.02.08/EYPE).
d2.e	Worksites	The licensed worksites of the old contract in the Southern section of Agrinio Bypass and Evinos constitute worksite area of this section.
d2.f		The permits granted to worksites ensure the implementation of the E.T., i.e. the exclusion of the spatial planning of the worksites in river beds. Furthermore, an Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes control procedures for all works referred to in the environmental terms, has been drawn up.
d2.g		
d2.h	Forest Areas/ revocation of reforestation	<p>During the said time period, the construction works have been suspended. For any work or installation, an intervention permit, which is granted by the competent Forest Service, shall be required.</p> <p>With respect to the projects within the occupation zone, 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. This law approves the change of use, revokes the re-forestation and grants intervention permits and permits for felling works to the above sites'.</i></p>
d3	Archeological Services	During the said time period, all construction works have been suspended. For any additional work or installation, permit and approval shall be required needed and granted by the competent Forest Service.
d4.a	Uninterrupted flow of the surface waters	The hydraulic works for the most part of this section are already built. Hydraulic studies are going to be submitted to the Independent Engineer where required (non-completed sections). The construction of technical plumbing projects before issuing such certificates of approval by the Independent Engineer is not allowed under any circumstances.
d4.b	To prevent flooding of the adjacent agricultural areas	

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d4.c	Uninterrupted operation of irrigation systems	There are no irrigation networks in the area that could be affected by the present alignment.
d5.a	Uninterrupted operation of service facilities, removal of wastes and keeping premises clean	<p>It concerns the operation phase. The available personnel, responsible for the construction of the project, are involved in cleaning and maintaining the road and the triangular curbs when needed.</p> <p>Works in the main artery of this section have been completed (the works carried out are for the construction of the junctions) and it has been delivered to circulation. Nea Odos S.A. undertakes the general maintenance and supervision of this section.</p>
d5.b	Rubbish, waste materials, old parts and machinery, oil, all kinds of grouting agents, etc., and materials combustion in the work area.	<p>In the area of this project there are no worksite installations and the service is conducted by the licensed worksites of the old contract in the Southern section of Agrinio Bypass and Evinos (Ag. Georgios).</p> <p>Any waste from the regular cleaning of the road are collected and transported in bins of the Municipality of Agrinio.</p>
d5.c	Pollution of surface and ground waters from any kind of oils, fuels, etc.	<p>Regarding the management of the environmentally dangerous materials the following agreements have been contracted and are valid with the responsible companies:</p> <p>A) For the management of used oil – ELTEPE S.A. B) For the management of used oil and petroleum filters, used wad/tow and contaminated material (soil, sorbents) from any possible leaking of oil – INTERGEO ΕΠΕ C) For management of used accumulators (batteries) – SIDESIS S.A. D) For management of used tires – ECOELASTIKA</p> <p>The separation of the above materials is conducted in a specially designed area on the worksite of Evinos and the temporary storage is done in special buckets and barrels sent from the above management companies.</p> <p>Finally, a special vehicle and machinery laundry has been built at Evinos worksite, with tight tank for the collection of the resulting water.</p> <p>Furthermore, it is stated that there is no water receiver in the immediate area of the project. The nearest water receivers are Acheloos River and the Lagoon of Aitoliko located within 3km and 2km respectively from the project.</p>

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d5.d	Intervention or modification of the existing infrastructure works in collaboration with the relevant agencies	Special care is taken. The subject is controlled through the monitoring of the E.T.
d5.e	Smooth communication between the residential areas	Special care is taken. The subject is controlled through the monitoring of the E.T.
d5.f	Circulation of agricultural machinery and farmed animals with adequate passages	The vertical roads and most of the lateral ones are already constructed.
d5.g	Use of mechanical equipment to contain the dust.	An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes protection measures for all works referred to in the environmental terms, has been drawn up. More specifically, based on the works provided, the following are implemented:
d5.h	Passage of full trucks carrying materials for the project needs	
d5.i	Regular wetting of worksite materials	
d6.a	Restrictions on excavations to the absolute necessary ones	All terms have been taken into account in the approved technical designs (road works, etc.). In the approved alignment in 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



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		<p>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, 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 in order to construct the road, 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.</p> <p>The solution of mild slopes offers greater safety in the event of earthquake in the area, where the cuts will be moved causing minor compression failures to the pavement, which can be easily repaired.</p> <p>Any other solution to this problem (e.g. Cut & Cover) would be established at a problematic area of possible failure and the compression movements in the event of earthquake would cause irreversible damage.</p> <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 will lead to its smooth integration into the surrounding area.</p>
d6.c	Unhindered passage of fauna	This request has already been met by the constructed technical structures.
d7	Planting after elaboration of landscaping studies	The relevant final landscaping studies have been submitted and approved by the Independent Engineer. Suggestions for the protection of slope embankments and excavations, which include, among others, anti-corrosion measures (hydroseeding), have been formulated in the geotechnical designs and have been adopted by the landscaping design too.
d8	Fire protection	In the area of this project there are no worksite installations and the service is conducted by the licensed worksites of the old contract in the Southern section of Agrinio Bypass and Evinos.
d9.a	Project's Machinery	

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		<p>the above measurements and machine certificates of EOK type are kept.</p> <p>Finally, all the machines of the project are equipped with the foreseen fire-fighting measures. Also, at Evinos site (offices, workshop, laboratory, concrete laboratory) there are fire-extinguish means, like fire-extinguishers, sand, water.</p>
d9.b	Noise	<p>With respect to the noise, pursuant to the Plan for Environmental Management in terms of the Environmental Monitoring & Control Program noise level measurements have been conducted by an external partner (TTE & Environment) and there was no excess of limits. The measurements had been re-submitted in the annual reports of previous years.</p> <p>The measurements will be repeated in all the successive phases during which this section undertakes a different traffic role in connection with the realization of the remaining sections of "Agrinio Wide Bypass".</p>
d9.c	Noise measurements	
d9.d	Noise Barriers	
d9.e	Noise Level measurements	
d10	E.T. suggested in the EIA	They are taken into consideration
d11	Change of the project's basic characteristics	<p>A file of article 13 of the JMD 11014/2003 regarding the amelioration proposal of Aggelokastro I/C, in order for the process of the environmental license (J/V protocol no. 5400/20-10-08) to be followed, has been submitted to EYDE/YPEHODE. The certification has been approved under the project's JMD of E.T. amendment with protocol no. 144713/23-09-2009. A file of article 13 of JMD 11014/2003 regarding the proposal for lateral toll stations placing with J/V protocol no. 12938/24-7-09 has been submitted. The file has been submitted to EYPE by EYDE with EYDE protocol no.: A/1/013/06/24/4176/17-12-09. After the change of the toll stations type, the lateral tolls of Aggelokastro, Agios Ilias, Rigani, Chaliki are repealed and thus a new 13 File will be submitted, which shall include the new situation created.</p>
e1	Local environment - Sensitive elements - Specially Protected Areas	Sensitive environmental elements (settlements, protected areas and archeological sites) are taken into consideration in the elaboration of the Designs and the execution of the construction works.



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e2	Measures and projects for the conservation of the above elements	
f	Validity of E.T.	<p>The following shall apply:</p> <ul style="list-style-type: none"> • JMD 105886/03.07.2008 Extension of No. 84982/96/11.04.1997 JMD on environmental terms approval of the project "Motorway of Western Greece (Ionia Odos)" in the "Agrinio Bypass" from CH. 0+000 to CH. 34+401 or CH. 34+811" in the Prefecture of Aitoloakarnania." • JMD 144713/23.09.2009 Amendment of No. 84982/96/11.04.1997 JMD on environmental terms approval, as amended by No. oik.105886/03.07.2008 JMD, EPO, the project "Western Greece Motorway. (Ionia Odos) in the "Agrinio Bypass" from CH. 0+000 to CH 34+401 or CH. 34+811 in the prefecture of Aitoloakarnania" <p>For further renewal of the environmental conditions, the procedures of Law 4014/2011 (OGG 209A/2011) should be adopted.</p>
g	Amendment of E.T.	-
h	EIA presence at the offices	The term is respected.
i	Non-compliance with the E.T.	-



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**2.3 NORTHERN END OF AGRINIO BYPASS (KOUVARAS) – SOUTHERN END OF
ARTA BYPASS (KOMPOTI) AND SOUTHERN END OF ARTA BYPASS (FILIPPIADA) –
IOANINA (ELEOUSA)
JMD 141564/25.07.2005**

(JMD 141564/25.07.2005)



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b.	Specific limit values of pollutant loads and concentrations emission	The control, during the construction phase, is conducted in accordance with the current legislation and the limit values specified in this are met.
c.	Specific limit values of noise level and vibrations	<p>The control, during the construction phase, is conducted in accordance with the current legislation and the limit values specified in this are met.</p> <p>With respect to the noise during the construction of the project, according to the Program for Environmental Management and in terms of Environmental Monitoring Control Program, noise measurements are conducted parametrically of the worksite and the construction faces and the results were within the allowable limits. The said measurements are reflected in maps depicting the extent of the construction of the project and the location the measurements were made. The said maps as well as the measurement, which were repeated at regular intervals (monthly), were included in the noise measurement issue, which is submitted with the annual report in the past.</p> <p>During the current period, no noise measurements were carried out due to the suspension of the construction works.</p>
d.1	Obligation to comply with the environmental terms	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management (submitted in May 2009 protocol no. IC-X-CO-S0000-PRO9251/ACH/Kla/12-05-2009), which includes control procedures for all works referred to in the environmental terms, has been drawn up.</p> <p>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 their services. The monitoring of the terms implementation is held as</p>

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		analyzed in the overall Plan for Environmental Management.
d1.1	To ensure Compliance with E.T.	An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes 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 their services. There are people responsible for implementing the Environmental Management Plan and the compliance with the E.T.
d1.2	To set up expenditure for environmental protection projects	All required costs are taken into consideration when tendering for the construction of this project. To date expenditures for environmental protection have been submitted in the annual environmental reports of the previous years.
d.2	In the area of the Prefecture of Ioanina: i) To construct a J/V in the CH. 175+700 (area of Terovo) ii) To remove the alignment from the settlement of Ampelia, with the construction of a tunnel iii) Degradation of the motorway to be done in the area of Episkopiko	<ul style="list-style-type: none"> i) The J/V of Terovo in CH. 175+708 has been studied in the OMO of the subsection ii) The tunnel of Ampelia with an approximate length of 870 - 900m has been included in the Finalized Design. The layout planning designs have been prepared and approved by the I.E. The A' and B' phase of excavation of Ampelia Tunnel has been completed. iii) The hypsometrical lowering included in the Finalized Design has been prepared and submitted. In the area of the overpass at Episkopiko, the embankments have a height of 3m (Motorists Service Station - Episkopiko - height of 4m).
d.3	Permits and approvals	The procedure for obtaining all necessary permits and approvals is underway, as specified below. There are no subcontractor worksites in operation since the cooperation has been interrupted, due to suspension of the construction works.
d.4	STIS individual activities relating to the construction or operation of the project	The relevant STIS for all required sites (quarries, borrow pits, disposal sites and worksites) have been submitted to EYPE and their approval is expected. The submissions of the studies as well as the progress of the approval

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		<p>procedure are as follows:</p> <p>Borrow pits</p> <p><i>Pinakoulia location:</i> (Submission to EYPE with Protocol No. 102908/02.04.08 and J/V Protocol No. 2853/IM/ες/01.04.08. Approved with EYPE Protocol No. 138434/03.07.2009)</p> <p><i>Paliokoulia location:</i> (Submission to EYPE with EYPE Protocol No. 143393, 10/08/09 and J/V Protocol No. 13478/06.08.09. Approved with EYPE Protocol No. 122353/22.02.2010).</p> <p><i>Makryvouni location:</i> Borrow Pit BP14, Makryvouni location, Municipality of Dodoni (CH. 180+000). The Technical Studies and the STIS. The approved studies have been sent along with the explanatory report and other opinions to the responsible of the Municipality of Dodoni. Furthermore, the study has been presented before the City Council and an additional geological report was given.</p> <p>In order for the Municipality to proceed with the leasing of the site, a question was sent to YPEKA Directorate of Natural Resources, Ministry of Interior, and Epirus Region, where setting out the legal vacuum on how to lease the municipal quarries. The Municipality has no objection to the rental of the site, but it wants the best documented legal solution. In response, the General Directorate of Natural Resources of YPEKA, refers to the use of Law 3557/2007, namely 12.2 "additional sites", which provides for the "State assistance" in acquiring any additional sites or/and the "disposal of additional sites by the State."</p> <p>Quarries</p> <p><i>Toubanos location</i> (QN 08): Submission to EYPE with Protocol No. 12215/6.7.09 of the J/V and approval of STIS by EYPE with Protocol No. 141902/3.9.09.</p> <p><i>Aq.Georgios Glykorizo location:</i> Submission to EYPE with EYPE Protocol No. 101995, 06/03/08 and J/V Protocol No. 2525/IK/ΕΣ/05.03.08. Approved (protocol no. 205553/28.11.11)</p> <p><i>Selitoura location</i> (QN 13): (EYPE Protocol No. 2196, 03/02/09 and J/V Protocol No.</p>

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		<p>6871/IM/kla/30.01.09). Approved with EYPE Protocol No. 135889/21.7.09.</p> <p><u>Disposal pits</u> <i>Pouliana location:</i> (EYPE Protocol No. 143101/04.08.09 and J/V Protocol No. 13265/03.08.09). The design has been rejected by EYPE: 195360/18-1-11 (J/V: 34603/3-3-11).</p> <p><u>Worksites</u></p> <ul style="list-style-type: none"> • <i>Kampi and Gorgomylos site:</i> STIS has been submitted: protocol no. EYPE:107730/05.09.08 and J/V protocol no. 4759/05.09.08. The STIS have been approved with EYPE protocol no. oik136719/23.02.09. • <i>Sikoula location:</i> STIS is drawn up and will be submitted for approval to EYPE with EYPE protocol no. 12763/20-1-10 and J/V protocol no. 19059/18.01.10. The STIS has been approved. (EYPE 202687/24-10-12). • <i>"Gymnotopos" location:</i> (STIS Submission: EYPE protocol no.132846/26.11.10 and J/V protocol no. 31644/23.11.10). The approval is pending. • <i>In "Knauf factory" location,</i> offices have been installed in leased area. • <i>Worksite CH 89+240 – CH 89+540 in the Municipality of Stanos:</i> STIS Submission to EYPE (31776/26-11-2012) and return of the STIS (38369/22-02-2012). • <i>"Aqia Triada" S3.4 location:</i> ex Municipality of Ag. Dimitrios, now Municipality of Dodoni (CH.

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		<p>176+000 in the area of Terovo I/C). STIS has been approved.</p> <ul style="list-style-type: none"> • <i>Ampelia tunnel exit S3.6</i>, ex Municipality of Bizani, now Municipality of Ioanina (CH. 193+000 at the exit of Ampelia tunnel). STIS has been approved. The Technical Environmental Study has been submitted to EYPE to expand the Se.6 worksite, pursuant to those specified in Article 7 of the new Law 4014/2011 (39221/08-11-12); its approval is expected. • <i>Ampelia tunnel exit S3.7</i>, ex Municipality of Bizani, now Municipality of Ioanina (CH. 192+000 at the exit of Ampelia tunnel). STIS has been approved (36014/13-05-11). <p>Temporary Disposals: <i>Within the worksite of Agia Triada (S3.4)</i>. STIS submitted (31008/09-11-10). The EYPE/YPEKA with prot. no. 167346/03.04.2013 returned the file for the additional information on the temporary deposit in an approved worksite (code S3.4) in the village of Agia Triada/Terovo I/C (CH. 176+000), Municipality of Ioanina in order to be revised /completed.</p> <p>Restoration of old quarries: <i>E36 "Mirodafni" location</i>, Mirodafni, ex municipality of Ag. Dimitrios, now Municipality of Dodoni (CH. 178+500). The relevant study (EMAA) has been elaborated and submitted to the Municipality (16496/5-11-09). Following Company's relevant request to forward the study for approval, the Municipality of Dodoni, via a reply letter, gives its consent to leasing the area and more specifically the sub-places of E36B and E36C, given that the study has been duly approved (G.S. of Epirus region - Forest Service) (Municipality's protocol no. 23378/12-12-11). The EMAL has been resubmitted for approval by the Forest Service and the Region (39324/10-12-12).</p>

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		<p>Also an opinion on the sub-sites of E36B and E36C has been requested to IB EPCA (39222/08-11-12) and a positive opinion has been received (39360/27-12-12).</p> <p><i>E37 "Makrivouni" location</i>, Perdika, now Municipality of Dodoni (CH. 180+000). The restoration of the area is included in the STIS of ΔΘ BP14.</p> <p><i>E38 "Vasseika" location</i>, Perdika, now Municipality of Dodoni (CH. 181+200). The licensing procedures stopped due to negative opinion by the IB ΕΠΚΑ.</p> <p><i>E39 "Krifovo" location</i>, Krifovo, now Municipality of Dodoni (CH. 182+600). The relevant study (EMAA) has been elaborated and submitted to the Municipality (16496/5-11-09). The restoration is not possible because the disposal of the material has already been carried out.</p> <p><i>E50 "Old quarry of Pedini"</i>, Pedini, ex Municipality of Bizani, now Municipality of Ioannita. The relevant study (EMAA) has been elaborated and submitted to the Municipality (22582/12-04-10). During the current semester the relevant study (EMAA) has been re-submitted for approval to the Forestry and the Region (39323/10-12-12).</p> <p>According to the above mentioned, the deposits to restore quarries, which were ultimately promoted are in the locations of E36 (sub-sites B & C) and E50.</p> <p>The process of the environmental licensing of the ancillary projects is now included in Law 4014/2011 OGG 209A/2011).</p>
d.5	Environmental approvals by EYPE/YPEHODE	<p>Pursuant to the Environmental Term d4, the environmental approvals are given after the elaboration and approval of the relevant STIS by EYPE. For all licensing submitted up to now, the necessary STIS have been elaborated, for which a detailed report is being held above.</p> <p>The environmental licensing is now issued in accordance with Law 4014/2011 (Government Gazette 209A/2011)</p>

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d.6	Concrete and asphalt production worksite units	It has been ensured that the layout planning of concrete and asphalt mix production units abide by the aforementioned restrictions, as specified in the submitted STISs already approved.
d.7	Rehabilitation of the intervention zones	The observance of the term will be controlled by the Environmental Monitoring & Control Program. The clearings in the section were not held due to the suspension of the works.
d.8	Excavation products needed for the construction of the project	The need for delivery is mainly covered by the excavation products and any further estimated needs will be ensured by the sites referred to the environmental term in paragraph d4. During the report period, neither constructions works nor earthmoving works were held.
d.9	Disposal of inappropriate excavation materials	<p>It 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 STISs that were submitted to EYPE. The implementation of the E.T. with respect to the protection of water recipients from the disposed soil material is controlled via the Environmental Monitoring & Control Program.</p> <p>The term was a criteria used during searching locations for possible disposal sites in section S2 and S3 conducted in collaboration with the Department of Environment and Construction Division.</p> <p>More specifically, a technical study for E36 (former quarry - sub-sites E36A, E36B and E36C) and E39 old quarries restoration as well as for the old quarry and E50 of Pedini was submitted. During the current period, an EMAA has been re-submitted for the sub-sites E36B & E37C at the Forestry of Ioanina, as well as for the space E50 (old quarry of Pedini). The approval of the EMAA is expected.</p> <p>Temporary material deposition was adjacent to the front exit of the Ampelia tunnel. The volume of the deposition, in the output of the Ampelia tunnel, at the left front, has been reduced significantly. Complete</p>

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		<p>removal of materials will be carried out after the restarting of the works. For this space the Technical Environmental Study has been elaborated and submitted for the extension of the S3 worksite (39221/08-11-12), and its approval is expected.</p> <p>Temporary disposal of material is carried out within the worksite of Agia Triada for which a relevant STIS has been submitted to EYPE (31008/09-11-10) and its approval is expected.</p> <p>The approvals for the STIS regarding the space E9 S2 (prot. no. JV: 37643/5-10-11), for the space E6 S2 (prot. no. JV: 37643/5-10-11), E5 S2 (prot. no. JV: 37643/5-10-11), E4 S2 (prot. no. JV: 37643/5-10-11) are expected.</p> <p>As part of the environmental licensing of the disposal pits required, the J/V has submitted the relevant STIS for the sites E8 S2, E3 S2, E2 S2, E1 S2 (JV: 6757/23-1-09) which were withdrawn from the J/V (JV: 34716/10-3-11). These STISs were withdrawn because the J/V application is pending (JV: 23892/11-5-10) for Designation Act adoption by the competent Forestry.</p> <p>The STIS for the area of "Pouliana" E1 S3 has been rejected by EYPE due to forest character in combination with the E.T. D9.</p> <p>Materials are temporarily stored at CH. 11+000, in a rented space, and in Evinos bridge. The materials will be removed and integrated in the project, with the onset of the operations.</p>
d.10	Forest areas/revocation of reforestation	<p>As regards the works within the of the occupation zone of the project (Motorway, lateral roads etc. as described in the Concession Agreement), pursuant to Law 3555/2007 (Ratification of the Concession Agreement) /Article 4/ Paragraph 4a and Law 2445/1996/ Article 2/ Paragraph 1c, '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. This law approves the change of use, revokes the reforestation and grants intervention permits and permits for felling works to the above sites'.</p> <p>As regards the ancillary works, the required procedure is preceded by the STIS submissions pursuant to 998/79. During the current period, no actions for sites characterization act of ancillary works or approval intervention</p>

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		<p>were requested.</p> <ul style="list-style-type: none"> • A characterization act was requested for the proposed location of borrow pits (restoration of old quarries E36, E37, E38, E39, E42 and E50) • A certificate of characterization act finality was issued for the borrow pit BP14 • Requests for a characterization act were sent to Agia Triada sites S3.4 and Ampelia S3.6 exit tunnel (prot. no. 26604/13-07-10 J/V). • A request was sent for the S3.7 worksite of Ampelia tunnel entrance (27590/05-08-10) and a positive opinion was received (31034/09-11-10). Also, the decision for STIS approval was sent. <p>During the current period no other actions for characterization acts of ancillary works or of intervention approval are required.</p> <p>An installation protocol for the B/P at "Paliokoulia" position BP11 (08.03.2012) is signed.</p>
d.11	All redundant excavation materials	<p>The excavation materials do not usually contain waste or toxic waste. All redundant excavation materials (after the necessary split) were transported in approved deposition chambers or in rehabilitation positions of borrow pits/old quarries, as provided by STIS and TMA.</p> <p>The top soil is stored, where appropriate, for use in the slopes of the Motorway within the expropriation limits. Temporary disposal of suitable excavated materials is carried out in the approved worksite of Agia Triada. There is also disposal in Ampelia exit, on the left side of the front. The removal of the materials will be carried out with the re-start of the works.</p>
d.12	Worksite infrastructure serving the project's needs during its operation	O&M Control Centres Maintenance Control Centers (TBR) are to be built, which will dispose the necessary worksite infrastructure in order to serve the needs of the project during the operation phase.



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d.13	Stone processing and concrete production worksite installations	<p>Two crushers (a mobile and a stable one) were used within S3 section and a mobile crusher within S2. To minimize dust generation, especially in stable systems, a continuous erosion of piles of aggregate was held - chemical and a wetting system of the material with beck was placed onto the crusher conveyor belt. Also, during the fall of materials tall from the conveyor belt, a material tall cone was left to be created, in order to avoid the dust generation. Finally, the transfer was realized with closed conveyors.</p> <p>There are no facilities of bituminous production and concrete production in the said sections. The supply, when required, is being realized by external, environmentally licensed, partners. In cases of future facilities, the content of terms d13 and d14 will be examined under the Plan for Environmental Management and the Environmental Monitoring & Control Program which includes protection measures for all the aforementioned to the environmental terms. 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 their services.</p>
d.14	Bitumen production plants	<p>For future concrete or asphalt production plant, which will be installed in the approved worksite locations, the approved STISs, which provide those aforementioned in the environmental term, will be met.</p>
d.15	Archeological Service/ Archeological Findings	<p>Before the commencement of the works carried out to date, the relevant archaeological services monitoring the project have been informed. The above update and monitoring are carried out for the ancillary projects as well. In the event of the installation of an ancillary project or modification of the main road project, the advice of the competent archaeological services is taken. During the current time period no works were carried out.</p>
d.16	Proper operation of facilities and removal of waste	It concerns the operation phase.
d.17	Rubbish, waste materials, old parts and machinery, oil, all kinds of grouting agents, etc., and materials	Controls are regularly held by the responsible of environment in the manner described in the Environmental



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	combustion (tires, oil, etc.) in the work area	Monitoring and Control Program and it is found that:
d.18	Toxic solids and scrap metal, tires, etc.	<ul style="list-style-type: none"> • There are no operating subcontractors' worksites. The collaboration was interrupted due to the suspension of construction.
d.19	Pollution of surface and ground waters from any kind of oils, fuels, etc.	<ul style="list-style-type: none"> • Agia Triada worksite: It is not used as a worksite area. There are no trash-parts etc. • Ampelia worksites (S3.6 & S3.7): As part of the suspension of the works, the subcontractor (OSSA) removed its equipment, facilities and any kind of waste. The dangerous waste was received from authorized recycling companies. • The subcontractors, under the suspension of works, evacuated the waste oils from the worksite areas (receipt from ELTEPE). There are no oil changes elsewhere in the project. • An agreement with the Municipality of Filippiada and Ksirovounio has been made on the disposal of urban waste (there is also relevant document), which is collected in special bins of the Municipalities using garbage trucks and is led to HYTA of Vlaherna. <p>Regarding the management of the environmentally dangerous materials, the following agreements have been contracted and are valid with the responsible companies:</p> <p>A) For the management of used oil – ELTEPE S.A. B) For the management of used oil and petroleum filters, used wad and contaminated material (soil, sorbents) from any possible leaking of oil – INTERGEO ΕΠΕ C) For management of used accumulators (batteries) – SIDESIS S.A. D) For management of used tires – ECOELASTIKA</p> <ul style="list-style-type: none"> • The separation of the above materials is conducted in a specially designed area on the worksite of Kampi as well as on the worksite of the entrance-exit of Ampelia and the temporary storage was done in special buckets and barrels sent from the above management companies. • The maintenance of vehicles and machinery are made by a J/V's oil vehicles and in a licensed garage-laundry-

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		<p>lubrication of the area or in the licensed worksites. For the said time period, there was no waste production because there is neither construction activity nor use of machinery.</p>
d.20	<p>Modification or intervention to an existing infrastructure project should be done in collaboration with the relevant agencies</p>	<p>All PUOs involved have been contacted (pursuant to paragraph 7 of Special Conditions of Contract) in order to opinion on their networks and the relocation of those. More specifically, PPC update for its networks has been completed. For sections where there will be a blockage with irrigation or sewerage systems the relevant actions shall be held in order for the PUO to be informed.</p>
d.21	<p>Relocation of the alignment of the road axle under design</p>	<p>The term is taken into account in elaborating the designs and is documented in the Environmental Protection Report which accompanies each road study, when submitted for approval to the IE. This means that the realization of the condition is ensured through the designs approval process held by the Independent Engineer. Pursuant to the submitted Final Road Designs and as checked in the Reports of Environmental Assessment of Final Design στις Εκθέσεις of the subsections 302, 303 and 306, the alignment does not cut approved limits of settlements and passes through in a distance of more than 100m from them. Small residential complexes, located in proximity to the project are the "Pente Pigadia" – Brigka and Krounes. These are non-bound rural settlements, and not newly built ones. As regards the subsection 306, branch 3 of the I/C is near "Pindos" hatchery. In this position, the layout relocation of the branch compared with the relevant one of EIS, is the largest one observed (39m), resulting in the removal from the hatchery. It has to be noted that the proximity of the hatchery was foreseen during the phase of elaboration and during the phase of the EIS publication, where the involved parties are informed and are entitled to protest. Such action of complaint was not reported. In addition, as mentioned the branch has been removed at 20-39m., therefore it is optimized with respect to the EIS.</p>



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d.22	Worksite signage study	<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. 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 their services.</p> <p>The implementation of ET22 is controlled by the persons responsible for safety and health. Perform All necessary actions for the required traffic regulations (approval from the Independent Engineer, Traffic Police, Directorate of Technical Projects – Department for Transportation Projects are performed.</p> <p>As regards the dust, based on the works carried out in the past, the following were implemented:</p> <ul style="list-style-type: none"> ▪ The worksite roads were regularly soaked as well as the piles of materials ▪ The bulk material trucks were not overcharged and all trucks transporting loose materials were covered. ▪ Cleaning debris materials from trucks before leaving the worksite and regular cleaning of the existing road network to be used. <p>The penetrating machines used in Ampelia tunnel, had been certified and they were holding dust filters. The penetrations in the tunnel are completed.</p> <p>2. Regular wetting of the surface with a tanker was held in the pile of material temporary drop at Ag. Triada. Wetting was held in all worksite roads, before the suspension of the works.</p> <p>Due to suspension of works, during this semester, materials were not transported and therefore trucks did not circulate on local road network and on the access roads.</p>
d.23	Use of mechanical equipment in order to contain the dust.	
d.24	Regular wetting of worksite materials etc.	
d.25	Regular wetting of all bare surfaces	
d.26	Wetting of excavated products and aggregates	
d.27	Washing the wheels of trucks	
d.28	Creating large embankments	The term is taken into consideration in the designs and is documented in the respective Environmental



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		Protection Report accompanying the current road design when submitted for approval to the IE. This means that the realization of the condition is ensured through the designs approval process held by the Independent Engineer.
d.29	Planting and preparation of special planting designs Watering Collection of top soil	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. Regarding the relevant designs for the reference period. The design of restoration works and their budget constitute an integral part of every ETME design (disposal pits, borrow pits, worksites, etc.)
d.30	Fire protection	An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes protection measures for all works referred to in the environmental terms, has been drawn up. In any event, after the commencement of works, the fire measures in the project's machines and the scope of works are controlled and the provided H&S Plan should be adhered to. Special attention should be given to areas that are near forests and fields during the summer months. Emphasis is given in order for the machines located at the project area to be equipped with the provided firefighting equipment. Regarding the premises of the site (offices, workshop, laboratory and concrete preparatory) the adequate firefighting equipment like fire extinguishers, sand and water supply are provided. Fire stations have been installed at critical points in the work fronts. Finally, to those mentioned in P-18 process are met under the Health and Safety Plan.

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d.31	Noise	<p>With respect to the noise during the construction of the project, pursuant to the Program for Environmental Management and in terms of Environmental Monitoring Control Program noise measurements are conducted parametrically of the worksite and the construction faces and the results were within the allowable limits. The said measurements are reflected in maps depicting the extent of the construction of the project and the location the measurements were made. The said maps as well as the measurement, which are repeated at regular intervals (monthly), were included in the noise measurement issue, which was submitted with the annual report, in the past.</p> <p>During the current semester, no noise level measurements were conducted because of the suspension of the construction works.</p> <p>In any case, the legislation applicable on noise is referred to in term c.</p>
d.32	Noise Measurements	It concerns the operation phase.
d.33	Noise barriers	<p>With respect to the provision of placing noise barriers, which concerns the operational phase of the project, with the finalization of the road designs, a Special Acoustics Study for Noise Protection, which shall be submitted for approval to EYPE/YPEXODE, shall be assigned and submitted.</p> <p>The Noise Acoustic Study will examine the areas that are less than 200 m. from the town plan boundary, as well as any existing sensitive uses in areas outside the village limits.</p> <p>Pursuant to the submitted Final Road Designs and as tested in the Final Environmental Assessment Reports of the subsections 302, 303 and 306, the installation of noise barriers may be required in the settlements of Ag. Christoforos (settlement – subsection 302), Episkopiko (subsection 303) and in "Pindos" incubator (subsection 306). In these positions, the cross section of the motorway is such that it allows installing noise barriers in the future, on the shoulder of the road, if this is deemed necessary.</p>
d34	Dealing with noise during the construction phase	The monitoring of the parameters, mentioned in the E.T. through vibration monitoring program, in the areas of entry-exit tunnel of Ampelia and in the areas with construction of trenches, is conducted, Amfilochia, Menidi,

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		<p>Gymnotopos etc. When construction works with vibrations are conducted, with possible cause of vibrations, the parameters referred to in the E.T. will be monitored via vibration monitoring programs and if they exceed the limits, the appropriate measures will be taken.</p> <p>During the preparation period of this report, locations of noise disturbance are not identified. Noisy works are done outside the populated areas and are avoided during quiet hours.</p> <p>In <u>section S2</u>, Marlesi is the settlement closest to the work front, situated about 1,5 km away from where the works are carried out</p> <p>In <u>section S3</u>, the settlements closer to the work front are:</p> <ul style="list-style-type: none"> ▪ Ammotopos and Gymnotopos located within 2 km and 1 km around respectively, from where the works are carried out. ▪ Ampelia settlement, where the tunnel is constructed. Noise and vibration measurements were carried out and no limits exceedances were noticed. <p>The last six months there were no other noise measurements due to the suspension of construction works.</p>
d.35	Enclosures – worksite noise barriers	<p>If and when shown by the noise measurements that the produced worksite noise exceeds the statutory noise limits, then the issue will be addressed through the Management Plan by taking appropriate measures, including installation of temporary noise barriers.</p> <p>The worksite of Agia Triada was used as a disposal area and has been temporarily fenced. The subcontractors worksites were fenced, except for the worksites on the body of the road (entrance and exit of Ampelia)</p>
d.36	Avoidance of chick amphibians passage in the area of Amvrakia	<p>It will be taken into account during the design and the construction of the fencings of the motorway in this section and if these sections of the project are identified in a distance less than 300m from the Lake Amvrakia.</p>



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d.37	Project's Machinery	<p>For some of the machines, there are certificates of EC type. For the old machines, which do not have this certificate, emitted noise measurements are being conducted according to JMD 56206/1613/86 and records of the above measurements and machine certificates of EOK type are kept.</p> <p>The last period no construction works were carried out.</p>
d.38	Vibrations	<p>A vibration grapher has been procured, control and vibration measurements are carried out and the results, which are attached to the annual reports, were within the allowable limits.</p> <p>In January, February of last year, explosions were held in the area of Menidi (S2) and in section S3 (trenches). Explosions are done by external partners who have licensed explosives (there is a copy of the license). Also, during the explosions and vibration measurements, the results are recorded. The works done this specific period of time does do not cause any damage to manmade structures and antiquities and cause no nuisance to neighbors and passers-by.</p> <p>In the S2, Marlesi is the closest settlement to the work front, situated at a distance of approximately 1,5 km from the point of the works.</p> <p>In section S3, Ammotopos and Gymnotopos are the settlements closest to the front work, located within 2 km and about 1 km, respectively, from the point of the work done.</p> <p>Measurements were also made in the past, in the entrance and exit of Ampelia, and the nearest receivers. There was no vibration at the nearest receiver (residence in Ampelia and the nearest building - tank).</p> <p>No construction works during the current period; therefore no measurements were carried out.</p>
d.39	Intervention Plan	<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</p>

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		leakage of non-biodegradable substances, including the necessity to construct Pollution Control Units or not. A risk analysis study from accidental pollution has been submitted for the section in Amvrakia.
d40	Direct entry of the tunnels in the mountains	It is taken into consideration from the tunnel designs. The implementation of the term is ensured through the studies approval process by the Independent Engineer. According to the layout planning design of 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. A report of environmental assessment has been submitted to the Independent Engineer for the Design of layout planning of entrance where cover structures and front support with gabions are foreseen (IC-C-CO-S323N-CW-0200-000-ENV-EPR-RP.000.01.01-0/25-11-2009). The filling material will be rock, resulting from the excavation of the front. The relevant design has been approved.
d41	Rescue – escape of those entrapped in case of emergency in the tunnel of Ampelia	For Ampelia tunnel, a risk analysis study has already been elaborated - risk analysis study which provides the opening of two escape cross routes.
d42	Maintaining access to the settlements	The observance of the term will be controlled by the Environmental Monitoring & Control Program. In the past there was the need to construct structures in passing roads in Menidi Area and Stanos of Amfilochia, where, via bypasses, the access to villages, rural areas etc. special care is given so that the access to neighbouring properties is not blocked. Letter was sent to the Traffic Service and the Municipality of Filippiada in order for them to be informed as regards the Traffic Regulation for the needs of the construction works execution on Gymnopotamos Bridge, at the village road of Gymnopotamos – Dryofuto
d43	Uninterrupted flow of water	It is taken into consideration in the hydraulic designs. The implementation of the term is ensured through the



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		studies approval process by the Independent Engineer. Besides, it constitutes the principle of the design which is imposed by the KME
d44	Passage of wildlife	It is taken into consideration in the Final Road and Hydraulic Studies. The implementation of the term is ensured through the studies approval process by the Independent Engineer. Also, as part of the Final Environmental Assessment Reports of subsections designs, the distances of structures of the Final Hydraulic Studies are controlled and compliance with the Term is certified. Finally, during the construction phase, care should be taken upon restart of the works.
d45	Protection from corrosion of the natural slope of the project	It is taken into consideration in the elaboration of the hydraulic studies. The implementation of the term is ensured by the IE through the studies approval process.
d46	Automatic stations measuring air pollution and wind	A relevant report is going to be submitted for the location of the stations, which will be submitted to EYPE/Ministry for approval. The operation of the station concerns the operation phase of the project.
d47	Environmental Service	Environmental Service with permanent staff and external partners.
d48		
d49	Annual Environmental Report	The E.T. is fulfilled. The J/V submits relevant reports to the Concessionaire in an annual and semi-annual basis,



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		shared by the whole consortium. The present report implements the said E.T.
d50	ET suggested in the EIS	They are taken into consideration.
e1	Local environment - Sensitive elements – Specially protected zones	Sensitive environmental elements (settlements, protected areas and sites) were taken into account during the investigation of borrow sites positions, etc. and the elaboration of the STIS and Technical Design TME. The Department of Environment has elaborated a map with the environmental commitments, and pursuant to data under the EIS, which constitutes a tool for exploring of additional spaces and other works, and assistance for all persons involved to the construction.
e2	Measures and projects in order to maintain the above elements	-
f	Validity of E.T.	For the renewal of the environmental conditions the procedures provided for in Law 4014/2011 (Government Gazette 209A/2011) will follow.
g	Modernization, improvement, expansion or modification of the project	For any modification, expansion, improvement, etc. of the road project the procedures provided for in Law 4014/2011 (OGG 209A/2011) shall be adhered to.
h	E.T. Amendment	-
i	EIA presence on the worksite	The term is met. The EIS and the JMD are kept in the J/V's headquarters, as well as in the subcontractors' and the



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		worksite offices.
j	Non-compliance with the E.T.	-



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2.4 ARTA BYPASS

(JMD 120756/96/03.06.1997, JMD 132550/31.07.2003 & JMD 137938/31.12.2003)



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b	Specific limit values of pollutant loads and concentrations emission according to the applicable provisions	All measures are taken into consideration pursuant to the current legislation.
c	Specific limit values of noise level and vibrations according to the applicable provisions	<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 includes 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 their services.</p> <p>During the preparation of this report, there was no location/section causing a nuisance. If this happens, the appropriate measurements will be made and the necessary measures will be taken. It has to be noted, however, that the works carried out in that section (construction of fiber-optic network – improvement of the existing road) do not cause nuisance because they are conducted outside the residential areas.</p>
d1.a	Obligation to comply with the environmental terms	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes 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 their services. There are people responsible for implementing the Environmental Management Plan and the compliance with the E.T.</p>
d1.b	Ensure Compliance with E.T.	<p>An Environmental Monitoring & Control Program in terms of the overall Plan for Environmental Management, which includes 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 their services. There are people responsible for implementing the Environmental Management Plan and the compliance with the E.T.</p>



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A/A	SUBJECT	Description of Progress - Problems
d1.c	Ensuring credits for environmental protection projects	It is taken into consideration
d2.a	Permits and approvals	<p>During the preparation of this report, there was no need for this kind of facilities, because in the said section the works have been executed. In case such need of material, the supply will be realized by subcontractors licensed facilities in the area. The control and monitoring of environmental terms is carried out in accordance with the Environmental Management Plan under the Environmental Monitoring and Control.</p> <p>There is cooperation with a company producing and supplying cement concrete (Artaiki S.A. there is the environmental permit of the said company). At this time there was no use of concrete. The cooperation with this company is supported by vouchers and invoices which are in the accounting department. No use of concrete was made during the said period.</p>
d2.b	Materials required for the construction of the project	There were no works or activities during the period covered by this report in order to be a need for such facilities. The works and materials are covered by sub-contractors already licensed premises in the area as provided in the E.T. d2v.
d2.c	Disposal of inappropriate excavation materials	There were no works or activities during the period covered by this report so as to be a need for new additional areas.
d2.d	Worksites	<p>In this area there is no worksite. The service is available from the offices of the J/V in Kampi, Arta (EYPE prot. no. 10461/04-08-05). Also, there are two licensed worksites in Kampi and Gorgomylos of Arta with EYPE protocol no. 136719/23.02.09 (within the limit of the road axle). Moreover, an overall Environmental Management Plan has been developed under the Environmental Monitoring and Control Program including control procedures referred to in the next environmental conditions.</p>
d2.e	Worksite facilities restoration	
d2.f	Forest areas/reforestation	<p>For any works or installation the intervention license is needed; this will be requested by the Forest Service.</p> <p>As regards the works within the occupation zone, pursuant to Law 3555/2007 (ratification of the Concession Agreement)/ Article 4/ Par. 4a και Law 2445/1996/ Article 2/ Par. 1c.</p>
d3	Archeological Service	No works or activities during the period covered by this report and therefore neither information nor authorization

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		were required by the competent Archaeological Service. If required, the term will be met.
d4.a	Uninterrupted flow of waters	These specific requirements of the E.T. mainly concern the current project. In addition, E.T. issues related to
d4.b	Operation of the existing irrigation and drainage network	the design, are controlled at the time of submission of the study by the Independent Engineer and are substantiated by the Environmental Protection Report, which accompanies each submission of Study.
d5.a	Uninterrupted operation of the service facilities	This section has been completed and put into circulation. Cleaning, maintenance and supervision of this department is undertaken by NEA ODOS S.A.
d5.b	Rubbish, waste materials, old parts and machinery, oil, all kinds of grout, etc., and materials combustion (tires, oil, etc.) in the work area.	For the disposal of municipal solid waste there is an agreement with the municipalities and Ksirovounio and Filippiada, now Municipality of and Zyros respectively, Arta (there is a relevant document) to receive waste which is collected in special bins of the municipalities, with a garbage truck and they are driven to the HYTA of Vlaherna.
δ5.c	Pollution of surface and ground waters from any kind of oils, fuels, etc.	<p>For the management of the environmentally hazardous materials and the following agreements are concluded and are in force with relevant companies:</p> <p>A) For the management of used oil – ELTEPE S.A. B) For the management of used oil and petroleum filters, used χρησιμοποιημένου τιλματος (στουρι) and contaminated material (soil, sorbents) from any possible leaking of oil – INTERGEO ΕΠΕ C) For management of used accumulators (batteries) – SIDESIS S.A. D) For management of used tires – ECOELASTIKA</p> <p>The separation of these materials is carried out in a specially designed area in a licensed worksite in Kampi and the temporary storage is done in bins and barrels sent from these management companies. The maintenance of vehicles and machinery are made from a J/V's oil vehicle and in a licensed garage-laundry-lubrication area (there is a license).</p>
d5.d	Intervention or modification of the existing infrastructure works	No works or activities carried out during the period covered by this report so as for a need for intervention or modification of the existing infrastructure works to be resulted.



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d5.e	Ensuring smooth circulation between the residential areas	The subject is controlled through the monitoring of the environmental conditions. In the period covered by this report, no problems are detected as regards the communication/circulation between the residential areas.
d5.f	Use of mechanical dust restraint equipment during the drillings	The control and compliance relating to adjacent environmental conditions is held in accordance with the Environmental Management Plan under the Environmental Monitoring and Control. No works or activities during the period covered by this report on the said section.
d5.g	Passage of filled trucks transporting materials	
d5.h	Regular wetting of worksite materials etc.	
d6.a	Creating a junction in the broader region of Kampi - Chanopoulos circulation from and to Preveza.	These specific requirements of the E.T. mainly concern the current project. Additional E.T. issues related to the design, are controlled at the time of submission of the study by the Independent Engineer and are substantiated by the Environmental Protection Report, which accompanies each submission of Study.
d6.b	Section of the road passing near the area of Vlaherna	-
d6.c	Arachthos bridging	-
d6.d	Arachthos passage	-
d6.e	Louros valley	-
d6.f	Amfithea - cut and cover or small tunnel	-
d6.g	Option B, which bypasses in south the villages of Skamnia and	-
d6.h	Configuration of the slopes at high levels trenching to be implemented.	-
d7.a	Construction of small scale retaining technical measures to all embankments that exceed a height of 10	-
d7.b	Planting and elaboration of special landscaping designs	-
d7.c	Section of the road passing through the area of	-



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	Vlaherna	
d8	Fire Protection	The final landscaping designs have been submitted and approved by the IE.
d9	Farm units not removed from this project until about a decade	No worksite in this area. The service is available at the J/V's headquarters in Kampi, Arta, where there is firefighting equipment (fire extinguishers). Also all vehicles and machinery dispose the adequate firefighting equipment.
d10	Project's Machinery	
d11.a	Noise due to construction works	
d11.b		<p>As for noise during the construction project, it is monitored and controlled according to the Environmental Management Plan under the Environmental Monitoring and Control Program which includes control procedures to address the noise under all those mentioned in the next environmental conditions. If required, the necessary measurements will be carried out and appropriate action will be taken.</p> <p>For some of the machines, there are certificates of EC type. For the old machines, which do not have this certificate, emitted noise measurements are being conducted according to JMD 56206/1613/86 and records of the above measurements and machine certificates of EOK type are kept.</p> <p>Finally, all the machines of the project are equipped with the foreseen fire-fighting measures. Also, at Evinos site (offices, workshop, laboratory, concrete laboratory) there are fire-extinguish means, like fire-extinguishers, sand, water.</p>
d12	E.T proposed in the EIS	The specific requirements of the E.T. concern mainly the current project. Additional subjects of the E.T. related to the design, are controlled at the time of submission of the Study by the Independent Engineer and are substantiated by the Environmental Protection Report, which accompanies each submission of the Study.
d13	Change of Project's basic characteristics	
d14	Local environment - Sensitive elements – Specially	In such case, the procedures laid down in Law 4014/2011 (Government Gazette 209A/2011) should be



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	Protected Areas	followed.
e1	Local environment - Sensitive elements – Specially Protected Areas	Sensitive environmental elements (settlements, protected areas and sites) were taken into account during elaboration of the Technical Designs.
e2	Measures and projects in order to maintain the above documentation Described in paragraph d.	-
f	Period during which the environmental conditions shall be valid	For further renewal of the environmental conditions, the procedures of Law 4014/2011 (OGG 209A/2011) should be adopted
g	Change of the projects basic characteristics	In such case, the procedures laid down in Law 4014/2011 (Government Gazette 209A/2011) should be followed.
h	E.T. Amendment	-
i	EIA presence on the headquarters	
j	Non-compliance with the E.T.	