



## CENTRAL GREECE MOTORWAY (E-65)

### 1. INTRODUCTION

This Environmental Management Report is the approach of the Construction J/V's Environmental Management Process for the first semester of 2015 and has been drawn up in the context of its contractual obligation deriving from Article 13.3 paragraph (c) of the Project's Design - Construction Agreement (11.2.2 (iii) of the Concession Agreement 3597/20-07-2007), as amended by Law 4219/2013 (OGG 269A/11.12.2013).

The documentation of each semi-annual environmental management report is part of the Annual Report submitted to the DIPA of YPAPE by January 31 of each year throughout the Design - Construction and Operation Period, in accordance with the approved Environmental terms of the project.

This Semi-annual Environmental Management Report refers to the first semester of 2015 (01.01.2015 to 30.06.2015).

#### 1.1 DESCRIPTION OF THE PROJECT

**State:** Hellenic Republic

**Concessionaire:** CENTRAL GREECE MOTORWAY S.A.

**Constructor:** CENTRAL GREECE MOTORWAY (E65) J.V

**Independent Engineer:** URS - OMEK

The scope of the project includes the "Design – Construction – Financing – Operation - Maintenance and Exploitation of Central Greece Motorway E65" for thirty (30) years in accordance with the respective Concession Agreement:

- (i) "Central Greece" Motorway with a length of 190,5 km from PATHE semi-junction to Egnatia I/C.



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- (ii) PATHE motorway with a total length of approximately 57 km from Skarfia to Raches section.

The project is a part of the Trans-European Networks (TEN).

It serves international traffic portals in Volos, Igoumenitsa, Kristallopigi and Niki as well as the trans-regional traffic.

The Central Greece Motorway (E65) starts from the intersection at the PATHE motorway (CH. 203+000) and ends at Egnatia Odos, crossing the prefectures of Fthiotida, Karditsa, Trikala, Grevena.

It consists of two lanes per traffic lane as well as of an emergency lane. The width of the motorway in sections 0+000 – 19+000 and 61+500 – 130+600 is 23.30 m. with a central islet with a New Jersey safety barrier and planting, while as for the sections 19+000 – 61+500, 130+600 – Egnatia I/C is 22,0 m. with a side New Jersey safety barrier on the central islet.

The design speed is 120km/h in the lowland areas and 110km/h in the mountainous regions.

It includes:

### **1. 24 Interchanges**

#### **A. PATHE motorway (State New Section) and 57 km on length 7 Junctions**

- Molos I/C at CH. 5+500
- Thermopiles I/C at CH. 18+000
- Roditsa I/C at CH. 27+500
- Ag. Paraskevi I/C at CH. 32+500
- Ag. Marina I/C at CH. 38+200
- Stylida – Karavomilos I/C at CH. 47+000
- Raches I/C at CH. 57+000

Furthermore, two semi-junctions, integrated with E65 motorway, are constructed as follows:

- PATHE semi-junction ~ CH. 22+000

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- Anthili semi-junction ~ CH. 26+500

### B. E65 motorway 17 Junctions

- PATHE semi-junction at CH. 0+000
- Lamia I/C at CH. 5+900
- Anthili semi-junction integrated with Lamia I/C
- Karpenissi I/C 14+150
- Ksiniada I/C at CH. 32+270
- Smokovo semi-junction at 48+100
- Anavra I/C at 60+250
- Sofades I/C at 71+900
- Karditsa I/C at 80+400
- Proastio I/C at 97+000
- Loggos I/C at 105+980
- Trikala I/C at 110+940
- Vassiliki I/C at 122+780
- Kalampaka I/C at 135+450
- Grevena I/C at 143+390
- Karpero I/C ~ 169+000
- Egnatia I/C ~ 190+500

## **2. 6 Frontal & 16 Lateral Toll Stations**

### a. Frontal toll stations

#### E-65 motorway

- Karpenissi – Ksiniada at CH. 17+000
- Anavra – Sofades at CH. 66+650
- Proastio – Trikala at Ch. 108+500
- Karpero – Egnatia Odos at Ch. 190+000

#### PATHE Motorway

- Molos –Thermopiles at CH. 10+000
- Ag. Paraskevi – Raches at CH. 35+000

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### b. Lateral toll stations

E – 65 motorway

- 2 to Anavra I/C at CH. 60+250
- 2 to Thermopiles I/C at CH. 97+000
- 2 to Trikala I/C at CH. 110+940
- 2 to Kalampaka I/C at CH. 135+450

PATHE motorway

- 2 to Molos I/C at CH. 5+300
- 2 to Thermopiles I/C at CH. 18+200
- 2 to Ag. Paraskevi I/C at CH. 32+200
- 2 to Ag. Marina I/C at CH. 38+500
- 2 to Karavomilos I/C at CH. 46+700

### **3. 5 Motorist Service Stations (MSS)**

- Lianokladi at CH. 12+400
- Ksiniada at CH. 43+200
- Sofades at CH. 69+950
- Trikala at CH. 116+600
- Karpero ~ CH. 164+000

### **4. 3 Operation & Maintenance Centers**

#### **(Maintenance, Fire Brigade and Police Buildings)**

- Lianokladi at CH. 12+400
- Sofades at CH. 69+950
- Trikala at CH. 116+000

### **5. 4 Tunnels**

- Tunnel T2 of a length of 2.983 m at CH. 26+800
- Tunnel T3A of a length of 113 m at CH. 45+600
- Tunnel T3 of a length of 387 m at CH. 46+000
- Tunnel O/E of a length of 264 m at CH. 137+000
- Old National Road Tunnel of a length of 65 m at CH. 137+100 on the lateral road
- Tunnel T4N of a length of 300 m at CH. 159+500

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### **6. 27 Bridges > 50 m**

- Tunnel of an approximate length of 102 m. at CH. 20+936
- Tunnel of an approximate length of 89 μ (A) και 68 m. (Δ) at CH. 21+513
- Tunnel of an approximate length of 122 m. at CH. 24+025
- Tunnel of an approximate length of 67, 50 m. at CH. 24+700
- Tunnel of an approximate length of 137 m. at CH. 25+365
- Tunnel of an approximate length of 310 m. at CH. 26+475 (A), 241 m. at CH. 26+450 (Δ)
- Tunnel of an approximate length of 92 m. at CH. 31+750
- Tunnel of an approximate length of 70 m. at CH. 48+256
- Tunnel of an approximate length of 160 m. at CH. 49+078
- Tunnel of an approximate length of 295 m. at CH. 51+103
- Tunnel of an approximate length of 150 m. at CH. 54+073
- Tunnel of an approximate length of 150 m. at CH. 55+313
- Tunnel of an approximate length of 51.5 m. at CH. 70+420
- Tunnel of an approximate length of 92 m. at CH. 89+919 (Kalentzis river)
- Tunnel of an approximate length of 587 m. at CH. 103+675 (Pinios river)
- Tunnel of an approximate length of 74 m. at CH. 110+509 (Trikala – Larissa N.R.)
- Tunnel of an approximate length of 67 m. at CH. 122+998 (Kalampaka – Larissa N.R.)
- Tunnel of an approximate length of 80 m. at CH. 144+200
  
- Tunnel of an approximate length of 100 m. (A) and 80 m. (Δ) at CH. 145+500
- Tunnel of an approximate length of 50 m. at CH. 149+065
- Tunnel of an approximate length of 100 m. at CH. 149+895
- Tunnel of an approximate length of 50 m. at CH. 152+511
- Tunnel of an approximate length of 55 m. at CH. 153+910
- Tunnel of an approximate length of 150 m. at CH. 155+420
- Tunnel of an approximate length of 150 m. at CH. 169+385
- Tunnel of an approximate length of 275 m. at CH. 171+935
- Tunnel of an approximate length of 700 m. at CH. 189+695



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The Motorway also includes over and under-passes, support walls, drain-pipes, motorist service stations, etc.

The sections of the C.A. Project are divided into sixteen (16) Geographical Units (GU); 11 units on Central Greece Motorway E-65 and 5 units on PATHE motorway. For each Geographical Unit, the physical object is analysed into Groups of similar operations in the Partial Section Bi Price of Designs - Constructions.

The New State Sections that are already being constructed by the State and that, after their completion, will be incorporated into the Concession Project are as follows:

S/W	SECTION	Km.
12 S/W	Skarfia - Thermopiles section	17,32
13 S/W	Thermopiles - Sperchios section (except for the ERGOSE bridge which is under construction)	8,50
	Bridge under construction by ERGOSE at Thermopiles - Sperchios section	
14 S/W	Sperchios - Ag. Paraskevi I/C	3,50
15 S/W	Ag. Paraskevi I/C - Ag. Marina Section	8,50
16 S/W	Ag. Paraskevi Marina - Raches section	19,20
	Technical works at PATHE - Lianokladi section which is under construction by ERGOSE	

The approved optimizations with previous Ministerial Decisions differentiating the technical object of the project are listed in the table below:

Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Typical Cross-section	Modification	0+000 - end	Submitted from 148+135 to the end	8938/30.10.2008

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Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
CH. 30	Modification	28+000 - 32+000	Re-submitted (24+500 – 31+212) Request the return of file no. 20359/24.11.14. Re-submission with prot. no. 21335/31.03.15	
CH. 48+000 – CH. 56+000	Modification	48+000 - 56+000	Approved	
Relocation of Kalampaka MSS CH. 132+000 to Trikala MSS CH. 117+000	Modification	117+000 & 132+000	Re-submission	2036/29.11.2010
Loggos semi-junction	New object	105+980	Approved	
Relocation of Trikala frontal toll stations from CH. 108+500 to CH. 105+075	Modification	108+500 & 105+075	Approved	
Lateral road at Ag. Triada frontal toll stations (PATHE) 2.5 km	New object	Ag. Triada frontal toll stations	Approved by EYDE/PATHE	
Widening and rehabilitation of local roads (5 km) Rehabilitation of local road Chaidemeni – Raksa	New object	118+000	Approved	2036/29.11.2010
O/P CH. 63+500	New object	63+500	Approved	
O/P CH. 68+500	New object	68+500	Approved	
O/P CH. 93+500	New object	93+500	Approved	
O/P CH. 102+000	New object	102+000	Approved	
Widening U/P 59.1 (Kedros - Anavra) from 10.50m to 13.00m	Modification	59+900	Approved	
Widening U/P G024 (Karditsomagoula – Ag. Triada -Proastio) from 10.50m to 13.00m.	Modification	96+013	Approved	

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Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Changing cross-section width of 4 culverts	Modification	122+190	Approved	A/6/00/01/01/20112/ 28.11.2013
		122+280	Approved	
Connecting branch towards Ksiniada I/C	New object	32+000	Submitted	
Sofades I/C	Modification	71+600 - 72+200	Approved	
Karditsa I/C	Modification	79+500 - 81+500	Approved	

Variations already approved by Egnatia Odos S.A. due to special technical problems are listed in the table below:

Variation	Variation category	Section	Environmental Licensing	Approval Documentation
Ag. Stefanos (archeological site)	modification	31+000 - 33+800	Approved	A214567/30.04.2009 (EOA) A208744/09.03.2009 (EOA)
Ksiniada Lake (Organic soils)	modification	36+400 - 39+400	Approved	A214567/30.04.2009 (EOA)
Railway Station "Aggion"	modification	41+100 - 44+400	Approved	A214567/30.04.2009 (EOA) A207907/27.02.2009 (EOA)
Tunnel T3 & T3A	modification	43+000 - 48+000	Approved	A207907/27.02.2009 (EOA)

According to the environmental terms of the project, the Central Greece Motorway (E65) is divided in the following three sections:

Section	From CH.	To CH.	A.E.T. Decisions*
1 <sup>st</sup> Section	0+000	85+800	<ul style="list-style-type: none"> <li>Joint Ministerial Decision A.E.T. 144504/18.11.2005</li> <li>YPEKA Gen. Director decision. no. 167266/01.04.2013 (Amendment of JMD AET no.</li> </ul>



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			<p>144504/18.11.2005)</p> <ul style="list-style-type: none"> <li>MD 173471/23.06.2014 (JMD A.E.T. no.144504/18.11.2005)</li> <li>MD 147997/14.04.2015 (Amendment Decision no. 144504/18.11.2005 ETA JMD – as amended and in force)</li> </ul>
2 <sup>nd</sup> Section	85+800	137+550	<ul style="list-style-type: none"> <li>Joint Ministerial Decision A.E.T. 145521/18.11.2005</li> <li>prot. no. 203583/04.12.2012 (Amendment of JMD A.E.T. no. 145521/18.11.2005</li> <li>Decision no. 172041_26.11.2013 (Amendment of JMD A.E.T.)</li> </ul>
3 <sup>rd</sup> Section	137+550	175+000	<ul style="list-style-type: none"> <li>Joint Ministerial Decision A.E.T. 147014/18.11.2005</li> </ul>

The above State New Sections, pursuant to the relevant environmental terms, are divided into five sections, as stated below:

Section	FROM CH.	TO CH.	A.E.T. Decision	Description
Skarfia – Thermopiles in Skarfia – Lamia section of PATHE motorway	Skarfia 179+300 (NEW)	Thermopiles 196+750 (NEW)	JMD 146113/12.07.2005	From OSE (Hellenic Railway Corporation S.A.) Bridge – 250m. NW Edge beginning of Thermopiles I/C 17,5km.

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Section	FROM CH.	TO CH.	A.E.T. Decision	Description
			JMD 126696/06.06.2007	Amendment of the JMD 146113/12.07.2005
			122881/08.03.2010 EYPE/YPEKA	Environmental Licensing of Ag. Triada & Molos I/C Toll Stations
“Optimization of the National Road to a PATHE motorway in Skarfia – Lamia section, subsection from the beginning of Thermopiles I/C to Nea Kiti of Sperchios river”	Thermopiles I/C 198+300	Nea Kiti of Sperchios River	JMD 131550/04.05.2003	8,8km.
			121668/08.02.2010 EYPE/YPEKA	Environmental Licensing of Thermopiles I/C Toll Station
			MD 146836/05.03.2015	Amendment and Renewal of AEPO
“Optimization of the National Road to a PATHE motorway, section from Nea Kiti of Sperchios river to Roditsa I/C”	Nea Kiti of Sperchios River	Roditsa I/C	JMD 146109/30.09.2005	3,78km.
			145496/21.05.2015 EYPE/YPEKA	From 130m. before the axis of the New Kiti of Sperchios River up to the East of Roditsa village  Minor amendments
“Optimization of Athens – Thessaloniki National Road in PATHE motorway, Lamia –	3+500	12+000	JMD 130665/02.05.2003	8,5km.  From 211+000



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Section	FROM CH.	TO CH.	A.E.T. Decision	Description
Raches section, subsection from CH. 3+500 to CH. 12+000”			JMD 195214/11.01.2011	Amendment of 130665/02.05.2003
“Overall Bypass at Stylida – Karavomilos”	12+000	31+500	JMD 100198/30.05.2006	19,50km.  From New National Road to the western edge of RACHES I/C
			<u>121667/08.02.2010</u> <u>EYPE/YPEKA</u>  <u>Decision</u> <u>172866/23.05.2014</u>	<u>Environmental</u> <u>Licensing of Aq.</u> <u>Marina I/C - Stylida</u> <u>I/C &amp; Stylida I/C &amp;</u> <u>Karavomilos Toll</u> <u>Stations</u>  <u>Amendment and</u> <u>renewal of AEPO</u>



## CENTRAL GREECE MOTORWAY (E-65)

### 2. GENERAL ISSUES

#### 2.1 BRIEF REPORT

This semi-annual report covers the period from January 01, 2015 to June 30, 2015, following the “Concession Agreement Amendment Effective Date” of the project which was fixed as the 20<sup>th</sup> of December 2013. The amended Concession Agreement was signed on 28.11.2013 and ratified by the Hellenic Parliament under Law 4219/2013 – OGG 269 A’ of December 11, 2013.

The amended Concession Agreement and the amended Design – Construction Contract of the project provides for the division of the technical object of the Project in two periods:

A. The first period is the “T1 Design – Construction Period” which includes:

As regards the Second Exclusive Partial Deadline:

1. Safety works of the opened up section of the twin T2 tunnel (CH. 27+000) – CH. 30+000)
2. The construction of the frontal toll stations of Mavromantila in PATHE section of the project
3. The preliminary studies for Grevena I/C – Egnatia I/C motorway section
4. The construction works of the motorist service stations (a) in the area of Ag. Triada (2,54 km) and (b) in the areas of SRD6 and SRD6A of Karditsa
5. The construction works of Ag. Triada toll station (PATHE)

At the end of T1 Period:

6. The construction of the motorway section from Ksiniada I/C (CH. 32+270) to Trikala I/C (CH. 110+940).

B. The second period is the “T2 Design – Construction Period” the commencement of which will be determined by ministerial decision and will include part or the total of the sections below:

1. The motorway section from PATHE semi-junction (CH. 0+000) to Ksiniada I/C (CH. 32+270)
2. The motorway section from Trikala I/C (CH. 110+940) to Grevena I/C (CH. 143+390)
3. The motorway section from Grevena I/C (CH. 143+390) to Egnatia I/C (CH. 190+500)



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Since the effective date of the amended Concession Agreement and the Design – Construction Contract of the project dated 20/12/2013, the Construction J/V of “Central Greece motorway E65” changed its composition and hereinafter it is consisted by TERNA S.A. and TERNA-ENERGY S.A.

### 2.1.1 Reporting period

- Delays in the construction of tolls in G.U. 15S/W due to non-expropriations in the construction sites of Mavromantila tolls.
- Failure to execute the works on the motorway from CH. 108+400 to CH. 108+700 (300m length of complication) at “Antealakka” due to discovery of an area of uncontrolled waste disposal. The J/V sent relevant letters with prot. no. 7415/26.04.2010, 7416/26.04.2010, 10296/23.09.2010, 11194/12.11.2010, 14318/26.07.2011, 14598/12.10.2011, 15544/22.02.2013 and 16225/01.04.2014. Our J/V responded with relevant letter no. 19041/26.06.2014. The response of the competent services is expected.
- At the reporting date of this report (30.06.2015) the main issues of the involved with the Public Utility Networks work are the following:

- **TABLE OF HIGH-VOLTAGE FAULT, JUNE 2014**

S/N	Implementation entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
<b>KSINIADA-TRIKALA SECTION</b>					
1	Independent Power Transmission Operation	29+700-31+000	3	Relocation within road zone	On 14.04.2014 the Independent Power Transmission Operation informs us on: 1. The requested relocations of its networks will be completed on semester B' of 2015 2. It undertakes the expense of the
2	Independent Power Transmission Operation	31+150-32+000	3	Relocation within Ksiniada I/C road zone	
3	Independent Power Transmission Operation	33+200 – 33+300	2	Passing over arterial road	

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S/N	Implementation entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
4	Independent Power Transmission Operation	35+100 – 35+150	2	Relocation of left pylon within road zone. Passing over arterial road	requested projects.
5	Independent Power Transmission Operation	37+550 – 37+700	2	Passing over motorway	
6	Independent Power Transmission Operation	38+150-38+350	2	Fault on the high-voltage network	
7	Independent Power Transmission Operation	109+950	1	Fault on the high-voltage network	
<b>Total</b>		<b>Pylons</b>	<b>15</b>	<b>Passages</b>	<b>3</b>

- **TABLE OF LOW/AVERAGE-VOLTAGE, JUNE 2014**

S/N	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation	J/V prot. no.
<b>LOW/AVERAGE VOLTAGE/LIGHTING</b>					
<b>CH. 29+500 – CH. 111+000</b>					
1.	Lamia PPC	30+000-44+000	23	Relocation	16025/21. 02. 2014

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S/N	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation	J/V prot. no.
2.	Thessaly Region Technical Services Division of Karditsa Prefecture	54+000	5	Relocation	15987/17. 02. 2014
<b>TOTAL of faults</b>		<b>28</b>			

### TABLE OF TELECOMMUNICATIONS – PUOs FAULTS, JUNE 2015

A/A	Implementation Entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
<b>OTE</b>					
<b>CH. 29+500 – CH. 48+145</b>					
1	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	32+850		Relocation of OTE underground network for irrigation	424/19. 09. 2008 Answered by 7312/18. 12. 2008 of the Municipality of Ksiniada (J/V 1185, 07. 01. 2009) Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
2	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	33+400-33+550		Relocation of OTE underground network for irrigation	424/19. 09. 2008 Answered by 7312/18. 12. 2008 of the Municipality of Ksiniada (J/V 1185, 07. 01. 2009) Reference made on the blockage of the networks' faults with the U/P E-65. Requesting from Egnatia to proceed with their relocation.

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
3	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	33+850-33+920		Relocation of OTE underground network for irrigation	424/19. 09. 2008 Answered by 7312/18. 12. 2008 of the Municipality of Ksiniada (J/V 1185, 07. 01. 2009) Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
<b>CH. 48+145 – CH. 111+000</b>					
4	Karditsa Hellenic Telecommunications Organisation (OTE)	75+915 Vertical Road VR 21		Relocation of OTE underground network	442/19.09.2008 Answered by 582/13.10.2008
5	Trikala Hellenic Telecommunications Organisation (OTE)	109+300-109+500	9	Relocation of OTE underground network	16571/09. 05. 2014 Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
<b>OTE</b>					
<b>PATHE Skarfia – Thermopiles</b>					
6	Lamia Hellenic Telecommunications Organisation (OTE)	Skarfia Thermopiles PATHE Side Road SRD1	9	Relocation	16119/14.03.2014
7	Karditsa Hellenic Telecommunications Organisation (OTE)	75+915 VERTICAL ROAD KO21		Relocation of OTE underground network	442/19.09.2008 Answered by 582/13.10.2008 New application 16397/05.05.2014



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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
8	Trikala Hellenic Telecommunications Organisation (OTE)	109+500 & 110+100 – 110+300	3	Relocation and protection of OTE network	19831/08.092014 Application
<b>TOTAL</b>			<b>Pylons</b>	<b>12</b>	
<b>IRRIGATION</b>					
<b>CH. 29+500 – CH. 111+000</b>					
9	Municipality of Ksiniada	31+450-32+000 affecting the branches of Ksiniada I/C		Relocation of irrigation network – water drainage control	424/19. 09. 2008 Answered by 7312/18. 12. 2008 of the Municipality of Ksiniada (J/V 1185, 07. 01. 2009) Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed to their relocation.
10	Municipality of Thesprotia	47+950 – 48+050 affecting the branches of Smokovo semi-I/C		Relocation of irrigation network	421/19. 09. 2008 Answered by 7260/26. 09. 08 (J/V535, 08. 10. 08) of the Municipality of Thessaliotida. Mission of capturing the Municipality's networks

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
11	Municipality of Palama ( of Proastio) NEW ENTITY/ Water Supply Association of Municipality of Karditsa & other Municipalities	96+650 - 96+850  From CH. 96+650 to CH. 96+850 (200m, artery) also affecting the branches of Proastio I/C		Relocation of irrigation network	<p>1. Response of the Water Supply Association of the Municipality of Karditsa &amp; other Municipalities with prot. no. 17/15-01-2010 to the J/V's letter no. 4112/12-10-2009 and</p> <p>2. Response of Egnatia Odos with prot. no. A337077/20-09-2012 (K.E.:H00/C01/07_3892/788/K Π/5700/ΝΣ) to the Municipality of Karditsa &amp; other Municipalities' letters no. 373/22-08-2012 and 87/12-03-2010</p> <p>3. Our J/V, with letter no. 21029/20-02-2015, sent designs with the faults and a proposal for to get out of the faults in CH. 96+800, in accordance with the relevant agreements and asked for the approval of the proposal and the timely relocation (protection) of the network.</p> <p>4. Response of the Water Supply Association of the Municipality of Karditsa &amp; other Municipalities with prot. no. 122/04-03-2015 (J/V 21159) to our letter no. 21029/20-02-2009, that it agrees with the proposed solution, it may monitor the construction of the relocation projects but it cannot cover the relevant expenditure.</p>

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
12	Municipal Enterprise for Water Supply and Sewerage of Trikala	105+928,40 (Loggos semi-I/C)		Relocation & protection of irrigation system	
<b>IRRIGATION</b>					
<b>From CH. 29+500 to CH. 48+145</b>					
13	Municipality of Domokos	32+850, 33+400 – 33+550, 33+850 – 33+920		Relocation of irrigation network (investigation)	Indications of irrigation network on rural road
14	Municipality of Domokos	35+100		Relocation of irrigation network	Drilling Building – Irrigation pipes
<b>O.Σ.E. S.A. PROJECTS</b>					
<b>From CH. 29+500 to CH. 48+145</b>					

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
15	OSE S.A.	38+781 Perivoli Construction of UP38.1 and relocation of Agios Stefanos – Perivoli local road		Relocation of the existing level crossing located at section στο Kallipefki – Aggies, Perivoli, Municipality of Domokos.	EYDE/ C&W GR CP with prot. no. A/6/00α/08/25/οικ.1698/16-02-15 (J/V 21013) requested OSE for immediate actions concerning the relocation of the level crossing, in order for the works to be completed.  ΔΙΣΗΣΗΚ/OSE with prot. No. 1275496/11-03-15 (J/V 21197) informed us that our request was transmitted to the competent Directorate of the Line Maintenance (ΔΙΣΥΓ/ΟΣΕ) and during the in-situ visit on 02-03-15, informed us on the relocation requirements of the equipment of the existing level crossing.

## 2.2 ENVIRONMENTAL REQUIREMENTS

The design, construction and operation of the project are conducted in full compliance with the Approved Environmental Terms as well as with all the requirements that derive from the Concession Agreement (C.A) and the attached contractual documents (Design & Construction Agreement, Special Conditions of Contract, Technical Conditions of Contract, Project Design Regulation) as well as the applicable legislation.

Basic requirement for the construction of the project is the Law no. 3597/20.07.2007 (OGG 3445A/25.07.2007), as amended by Law 4219/2013 concerning the ratification of the Agreements Amending the Concession Agreements of major road projects and the regulation of all related matters (OGG 269A/11.12.2013), which includes the contractual



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issues, the current legislation, as detailed in the previous Environmental Management Reports (semi-annual and annual ones), as well as the conditions and restrictions arising from the individual permits and approvals, including the environmental studies of the various individual projects, the approvals of the amendments of the main road project, etc., for which the Contractor of the Project is responsible.

During the first semester of 2015, no legislative work on environmental issues was produced.



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### 3. ENVIRONMENTAL MANAGEMENT OF THE PROJECT

#### 3.1 ENVIRONMENTAL MONITORING & CONTROL PROGRAM

The “Environmental Monitoring & Control Program” is based on the environmental terms of the project and on the Concession Agreement and includes the following:

- Prioritisation of protective actions - measures that should be taken by the Constructional J/V according to the Environmental Terms and other contractual obligations.
- The designs, studies and technical reports that should be drawn up in the framework of construction and operation of the project and that involve several environmental issues.
- The implementation control process of the terms and actions by the competent authorities.

The purpose of the Environmental Monitoring & Control Program is to clearly determine the actions and measures required for the environmental management of the construction phase of the project and that derive from recording and assessing the environmental terms, other obligations or guidelines arising from the contractual documents and the applicable legislation.

The Environmental Monitoring & Control Program has already been submitted to EYP/YPEXODE and is under revision.

#### 3.2 ENVIRONMENTAL MANAGEMENT SYSTEM – ENVIRONMENTAL TERMS COMPLIANCE CHECKLISTS

The “Environmental Terms Compliance Checklists” are drawn up based on the Environmental Monitoring & Control Program and the Environmental Management System. These checklists include the way and methodology of required actions in order to ensure the implementation of the Environmental Terms.

The responsible department for the environment in cooperation with the project engineers carry out regular inspections and complete the checklists by applying the “Environmental Monitoring & Control Program”. Furthermore, they provide the



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necessary orders or guidelines that are based on the Environmental Monitoring & Control Program for every issue related to the environment.

The Environmental Management System, which is applied by the J/V, has been drawn up taking into consideration the requirements of ISO 14001:2004. It consists of the Manual, the Procedures, the Guidelines of the Works related to the environment and the observance of the project's environmental requirements. The manual, the procedures and the guidelines for environmental management is applied uniformly throughout the project and are currently in continuous progress in order to meet the project's needs.

### **3.3 MONTHLY, SEMI-ANNUAL AND ANNUAL PROGRESS REPORT FOR THE IMPLEMENTATION OF ENVIRONMENTAL TERMS**

At the same time, in order to monitor the Program and inform the Environmental Department of the Independent Engineer on a monthly basis, the Environmental Department of the J/V draws up monthly and annual progress reports for the implementation of the environmental terms in the form of a table. These monthly reports include:

- Works or designs carried out regarding the implementation of the Environmental Terms and all possible variations on the Environmental Monitoring & Control Program.
- The relevant actions of the persons responsible (inspections, special reports, etc.).
- A full photographic presentation of the environmental issues

In July of each year, a semi-annual progress report is being drawn up with respect to the implementation of the Environmental Terms in accordance with article 11.2.2., case (ii) of the Concession Agreement.

In January of each year, an annual progress report is being drawn up, pursuant to article 11.2.2 (iii) of the Concession Agreement, which includes the annual review of all issues described in the periodical reports.



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### **4. ENVIRONMENTAL ISSUES PROGRESS – WORKS CONSTRUCTION**

The progress of the construction works is submitted by the joint venture CENTRAL GREECE MOTORWAY E65 to the Concessionaire via monthly reports of progress.

The above paragraphs constitute the documentation for the compliance of the environmental commitments regarding the construction works progress.

#### **4.1 PERMITS - DESIGNS - APPROVALS**

This section presents all requests submitted by the Constructional Joint Venture in order to obtain permits in the framework of the project's implementation. Furthermore, the relevant designs that arise from the obligation to observe the contractual requirements and environmental terms of the project are presented.

##### **4.1.1 Permits and approvals in accordance with the environmental terms of the project.**

In the context of observing the environmental terms and other requirements based on the applicable legislation, relevant studies on the environmental licensing of the ancillary works are being prepared and submitted for approval and permit. The competent authority for the environmental studies is EYPE/YPEKA.

The following table (table 4.1.1-1) presents all relevant information on the submissions conducted to EYPE/YPEKA.



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**Table 4.1.1-1**

### Studies for the environmental permit of ancillary works

No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE/DIPA)	DIPA/EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
1.	STIS. MATERIAL WITHDRAWAL FROM ONOHONO RIVER (BP5N1)	Municipality of Sofades, Prefecture of Karditsa	141388/25-6-2009	141388/04.08.2009	STIS approval
2.	STIS. BORROW PIT AT AGIA PARASKEVI, "KALAMAKI BR" (BP1N3)	Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida	136998/05.03.2009	136998/28.07.2009	STIS approval
3.	STIS. WORKSITE AT LAMIA IN "AG. TRIFONAS" POSITION (MSS CH. 12+000) (IS1N1)	Stavros, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval
4.	STIS. BORROW PIT / DISPOSAL SITE "Pyrgaki – Kofina" (BP/DS1N1)	Stavros, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval  The Regional Forest Service Directorate does not approve the intervention permit
5.	STIS. BORROW PIT "Platana - Rema" (BP1N2)	Lygaria, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval
6.	STIS. BORROW PIT IN "MAGOULA" POSITION AT SPERHIOS RIVER (BP1N4)	Among Municipality of Ypati and Lianokladi, Prefecture of Fthiotida	136998/05.03.2009	136998/28.07.2009	The position has been rejected by STIS
7.	STIS. BORROW PIT IN "ASPROKAMPOS" POSITION AT GERAKARIS STREAM(BP1N5)	Kompotades, Municipality of Ypati, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval  The location has been rejected by the Hellenic Public Real Estate Corporation (HPREC)
8.	STIS. BORROW PIT AT "AERODROMIO" AREA (BP6N1)	Kefalovyssos, Municipality of Faloria, Prefecture of Trikala	140546/04.06.2009	140546/29.07.2009	STIS approval
9.	STIS Review Borrow Pit "AERODROMIO" (BP6N1)	Kefalovyssos, Municipality of Faloria, Prefecture of Trikala	148761/18.12.2009	121188/29.01.2010	Approval of the revised STIS

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE/DIPA)	DIPA/EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
10.	STIS. Borrow Pit "Kioskia" (BP4N1)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	143395/10-08-2009	143395/02-09-2009	STIS approval
11.	STIS. Borrow Pit "Geladaria" (BP4N2)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	145522/16-10-2009	145522/17-11-2009	STIS approval
12.	STIS. Anavra Worksite "Kedrakos" position (IS5N1)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	143394/10-08-2009	143394/02-09-2009	STIS approval
13.	STIS. Agios Georgios Worksite "Voulgarolakka" position	Municipality of Kampos, Agios Theodoros, Prefecture of Karditsa	143394/10-08-2009	143394/02-09-2009	STIS approval
14.	STIS. "GKOLNA" Worksite (BP5N4)	Municipality of Goriani, Prefecture of Grevena	121768/10-02-2010	----	The design was returned because of the decision of the Council of State for temporary suspension of the works in the 3rd JMD.
15.	STIS. Borrow Pit in "Mavrogies" position (BP5N4)	Sikeona, Municipality of Filo, Prefecture of Karditsa	121768/10-2-2010	14693/ 10.11.2011	STIS approval
			Resubmission 14076/16.06.2011 (J/V No.)		
16.	STIS. Borrow Pit in "Vrontaria" Position (BP6N2)	Fiki, Municipality of Pitalia, Prefecture of Trikala	124501/ 21.04.2010	127798/08.07.2010	STIS approval
17.	STIS. Stone processing installation in the quarry materials – borrow pit in "Pyrgaki" Position (IS1N2)	Stavros, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval
18.	STIS. Stone processing installation in the quarry materials – borrow pit in "Kalamaki Vr." Position (IS1N3)	Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval
19.	Stone processing installation in the worksite facilities of Lamia (IS1N4)	Stavros, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE/DIPA)	DIPA/EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
20.	STIS. Washing of aggregates with a sieve in the sand borrow pit in Gerakaris r. (IS1N5)	Kompotades, Municipality of Ypati, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	Rejected due to refusal of the lease application by the Mortgage Service of Prefecture of Fthiotida
21.	STIS. Worksite in Kalampaka MSS position (CH. 132+000) (IS9N1)	Municipality of Kalampaka, Prefecture of Trikala	125561/17.05.2010	199070/09.05.2011	Rejected by EYPE due to location within Natura 2000 area
22.	STIS. Worksite in "Lampes" position (IS6N1)	Proastio, Municipality of Selana, Prefecture of Karditsa	126671/11.06.2010	195831/31.01.2011	STIS Approval
23.	STIS. Worksite in "Samolaka" position (IS2N1)	Styrfaka, Municipality of Lianokladi, Prefecture of Fthiotida	126332/04.06.2010	127799/08.07.2010	STIS Approval
24.	STIS. Borrow Pit "Ammoudes" (BP5N5)	Filia, Municipality of Sofades, Prefecture of Karditsa	128447/27.07.2010 (J/V prot. no.)	132626/ 22.11.2010	STIS approval
25.	STIS. Borrow Pit "Haliades" (BP5N6)	Filia, Municipality of Sofades, Prefecture of Karditsa	128805/04.08.2010 (J/V prot. no.)	132626/ 22.11.2010	STIS approval
26.	STIS. Worksite of Perivoli (IS3N1)	Perivoli, Municipality of Ksiniada, Prefecture of Fthiotida	9575/06.08.2010 (J/V prot. no.)		Expected to be approved
27.	STIS. Worksite (IS2N3) in "Ohiro" position (T2 tunnel exit area)	Moshokaria, Municipality of Lianokladi, Prefecture of Fthiotida	128699/09.09.2010 (J/V prot. no.)	201981/01.08.2011	Approval
28.	STIS. Temporary deposit in "Fteres" position (DS2N1)	Moshokaria, Municipality of Lianokladi, Prefecture of Fthiotida	128699/09.08.2010 (J/V prot. no.)	201981/01.08.2011	Rejected
29.	STIS. Plant of asphalt production and 3A material mixer	Anavra, Municipality of Tamassi, Prefecture of Karditsa	128343/23.07.2010 (J/V decision no.)	201980/01.08.2011	STIS Approval
30.	Environmental Impact Pre-study. Environmental licensing of drilling wells	CH. 56+000 – CH. 90+000	13323/01.04.2011 (J/V decision no.)		Submission of Environmental Impacts Pre-study

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE/DIPA)	DIPA/EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
	under the project "Landscape Planting - Irrigation and Rehabilitation for the CH. 56+000 – CH. 90+000 of the Central Greece Motorway (E65)".		Request for STIS return 21008/17.02.15 (J/V decision no.)		DIPA/YPAPEN, with letter no. 146419/26.02.2015, returned the study
31.	STIS. Materials store and 2 units of asphalt production in "Sykia" position (IS1N7)	Koma, Municipality of Lamia, Prefecture of Fthiotida	201026/06.07.2011  Request for STIS return 14187/05.06.15 (J/V decision no.)	---	DIPA/YPAPEN, with letter no. 146313/26.02.2015, returned the study
32.	STIS/ EIS. Borrow pit in "Fournia" position (BP342)	Makrirachi, Municipality of Ksiniada, Prefecture of Fthiotida	204542/27.10.2011  STIS submission 15481/21.12.2012 (J/V prot. no.) EIS submission	MD 171820/01.04.2014	EYPE/YPEKA has returned the STISs with prot. no. 299814/20.07.2012 and asked for the submission of EIS in accordance with Law 4014/2011.  EIS approved
33.	Lateral Toll Station in CH. 60+200	Anavra, Municipality of Sofades, Prefecture of Karditsa	204541/27.10.2011  STIS Submission  21343/01.04.2015  STIS Submission	---	Expected to be approved
34.	STIS. Operation and Maintenance Centre in CH. 69+700	Municipality of Sofades, Prefecture of Karditsa	204544/27.10.2011	---	Approved
35.	Frontal Toll Station and station's administration building in CH. 65+650	Municipality of Sofades, Prefecture of Karditsa	204543/27.10.2011  STIS Submission  21343/01.04.2015  STIS Submission	---	Expected to be approved

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE/DIPA)	DIPA/EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
36.	STIS/EIS. Borrow pit in Agios Stefanos position (BP345)	Agios Stefanos, Municipality of Ksiniada, Prefecture of Fthiotida	204863/08.11.2011  STIS submission 15482/21.12.2012 (J/V prot. no.)  EIS submission	MD 171820/01.04.2014	EYPE/YPEKA has returned the STISs with prot. no. 200811/20.07.2011 and asked for the submission of EIS according to Law 4014/2011.  EIS approved
37.	EIS. Borrow pit at "Kokkalitsa", Makrirachi settlement, Prefecture of Fthiotida (BP3N6)	Makrirachi, Municipality of Domokos, Prefecture of Fthiotida	18752/18.06.2014 EIS Submission	---	Expected to be approved
38.	TEPEM (Technical Environmental Study) of Trikala worksite at 7 <sup>th</sup> km of NR Trikala - Karditsa	Megala Kalyvia, Municipality of Trikaia, Prefecture of Trikala	20292/10.11.2014 TEPEM (Technical Environmental Study) Submission	145494/21.01.2015	TEPEM approved
39.	TEPEM Frontal Stations of Trikala and Station Management Building	Trikaia, Prefecture of Trikala	21132/01.04.2015 TEPEM Submission	---	Expected to be approved
40.	TEPEM Lateral Stations of Proastio I/C	Sellana, Prefecture of Karditsa	21132/01.04.2015  TEPEM Submission	---	Expected to be approved
41.	TEPEM Lateral Stations of Trikala I/C	Trikaia, Prefecture of Trikala	21132/01.04.2015 TEPEM Submission	---	Expected to be approved
42.	TEPEM worksite of bituminous mixture production unit at Proastio I/C	Proastio, Municipal Unit of Sellana, Prefecture of Karditsa	21446/16.04.2015 TEPEM Submission	---	Expected to be approved

Within the second semester of 2015, additional relevant designs or even design reviews for environmental permitting of ancillary works such as disposal sites, worksites, borrow pits, etc. are expected to be submitted in order to receive environmental permit.

Moreover, in line with the environmental terms of the project, all the respective permits and opinions are obtained by the competent authorities, such as Forest Services, Archaeological Services, Prefectural Administration Services, etc.



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The Constructional Joint Venture submits the required requests to obtain relevant permits. The main competent services involved in the project are the following:

- Forest Service of Lamia
- Forest Service of Karditsa
- Forest Service of Trikala
- Forest Service of Kalampaka
- Forest Directorate of Grevena
- ΙΔ Service of Prehistorical and Classical Antiquities
- ΛΔ Service of Prehistorical and Classical Antiquities
- Α Service of Prehistorical and Classical Antiquities
- 19th Service of Byzantine Antiquities
- 24th Service of Byzantine Antiquities
- 17th Service of Byzantine Antiquities
- Regional Section of Fthiotida
- Regional Section of Karditsa
- Regional Section of Trikala
- Regional Section of Grevena
- etc.

The relevant correspondence is presented below:

1. Submission to the Decentralized Administration of the Region of Thessaly – Central Greece/ Dptm. of Natural Resources, of the approved:
  - Environmental Impact Study
  - Exploitation Technical Designof the Borrow Pit at the Local Community of Agios Stefanos, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N5) (12.01.2015).
2. Submission to the Decentralized Administration of the Region of Thessaly – Central Greece/ Dptm. of natural Resources, of the approved:
  - Environmental Impact Study
  - Exploitation Technical Designof the Borrow Pit in “Fournia”, Local Community of Makrirachi, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N2) (12.01.2015).
3. Our J/V requested the Forestry of Lamia to issue an estoppel certificate of the Characterization Act Decision no. 66848/8227/08.11.2011 of the Forester of

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- Lamia, referring to the land for the creation of a borrow pit, Local Community of Agios Stefanos, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N5) (12.01.2015).
4. Following the Deputy Minister of Environmental and Energy Decision no. ΔΛΜΑΥ-Β/Φ46.48/18029/4233/09.01.2015 (ΑΔΑ: 7Τ400-6ΝΙ), the Technical Design for Quarry Exploitation (borrow pit) of aggregate materials in “Kokkalitsa”, Municipal Community of Makrirachi, Municipality of Domokos, Prefecture of Fthiotida (12.01.2015) was approved.
  5. Following the opinion no. 8112/266400/24.12.2014 of the Forestry of Lamia on the Environmental Impact Study of the Borrow Pit for aggregates in “Kokkalitsa”, Municipal Community of Makrirachi, Municipality of Domokos, Prefecture of Fthiotida, the Forestry of Lamia, with prot. No. 8165/270334/30.12.2014, supplemented the initial opinion with extra terms (15.01.2015).
  6. The Forestry of Lamia, with letter no. 8112/266400/24.12.2014, sent its opinion on the Environmental Impact Study of the Borrow Pit for aggregates in “Kokkalitsa”, Municipal Community of Makrirachi, Municipality of Domokos, Prefecture of Fthiotida (15.01.2015).
  7. Following the opinion of the Forestry of Lamia (see par. 5 & 6 above) on the Environmental Impact Study of the Borrow Pit of aggregates in “Kokkalitsa”, Municipal Community of Makrirachi, Municipality of Domokos, Prefecture of Fthiotida, the Forestry of Lamia, the Forest Directorate of the Prefecture of Fthiotida submitted, with prot. no. 7/584/09.01.2015, the said opinion to YPEKA (16.01.2015).
  8. Following our request dated 21.09.2010, concerning the issuance of the borrow pit operating license, in “Fournia”, Local Community of Makrirachi, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N2), our J/V sent extra topographic diagrams to the Decentralized Administration of the Region of Thessaly and Central Greece in order for the service to proceed to a request for updating the opinions of the competent services (16.01.2015).
  9. Following our request dated 21.09.2010, concerning the issuance of the borrow pit operating license, Local Community of Agios Stefanos, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N5), the J/V sent extra topographic diagrams to the Decentralized Administration of the Region of Thessaly and Central Greece in order for the service to proceed to a request for updating the opinions of the competent services (16.01.2015).



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10. Following the Characterization Act no. 5648/241415/19.11.2014 of the Forester of Karditsa concerning the modification of the alignment of the Motorway at section CH. 47+313 – CH. 52+840, our J/V requested the estoppel decision from the Forestry of Karditsa (09.02.2015).
11. Our J/V requested DIPA/YPAPEN to return the Environmental Impact Pre-study concerning the drilling of wells under the project “Landscape Planting – Irrigation and Rehabilitation” for the section CH. 56+000 – CH. 90+000 of Central Greece Motorway (E65) submitted by the J/V on 01.04.2011 (17.02.15).
12. Our J/V requested DIPA/YPAPEN to return the STIS for the environmental licensing of the worksite area for temporary disposal of aggregates and asphalt units, at CH. 5+500, in “Sikia”, Local Community of Komma, Municipality of Lamia, submitted by the J/V on 05.06.2011 (17.02.15).
13. Our J/V requested the Municipality of Sofades to launch the delivery – acceptance procedures of the borrow pit in “Kioskia”, Municipal Community of Tamassi, Municipality of Sofades (code BP4N1) (18.02.15).
14. Elaboration and submission for approval of a Special Design of Quarry Rehabilitation to the Forestry of Karditsa in “Aploma”, Municipal community of Tamassi, Municipality of Sofades, Regional Unit of Karditsa (19.02.15).
15. Following our J/V’s letter dated 16.01.2015 whereby extra topographic diagrams of the borrow pit at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N5) were sent to the Decentralized Administration of Thessaly and Central Greece in order for the service, and letter no. 187/13405/26.01.2015 of the Decentralized Administration of Thessaly and Central Greece, the Service of Modern Monuments and Technical Works of Thessaly and Central Greece sent, by letter no. 179/16.02.2015, its positive opinion (24.02.15).
16. Following J/V’s letter dated 16.01.2015 whereby extra topographic diagrams of the borrow pit in “FOURNIA”, Local Community of Makrirachi, Municipal Community of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N2) were sent to the Decentralized Administration of Thessaly and Central Greece in order for the service to proceed to a request for update of the opinions sent by the respective services, and letter no. 186/13399/26.01.2015 of the Decentralized Administration of Thessaly and Central Greece, the Service of Modern Monuments and Technical Works of Thessaly and Central Greece sent, by letter no. 179/16.02.2015, its positive opinion (24.02.15).





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17. Following decision no. 145494/21.01.2015 of the Gen. Director of Environmental Policy of YPEKA, the EIS for the installation and operation of the worksite area at CH. 7+000 of Trikala – Karditsa NR, Municipal Unit of Megala Kalyvia, Municipality of Trikkaia, was approved (26.02.15).
18. In response to the Directorate of Technical Inspection of the Decentralized Administration of Thessaly and Central Greece request no. 187/13405/26.01.2015, whereby opinions and update of the opinions for the issuance of an exploitation license of “Agios Stefanos” borrow pit, Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (code BP3N5) were requested, the Department of Mines Inspectorate of South Greece of YPAPEN with prot. No. EMNE/Φ.23.32/209/03.03.2015 sent its positive opinion (06.03.15).
19. Following letter no. 5427/249505/01.12.2014 of the Decentralized Administration of Thessaly – Central Greece/ Directorate of Environment & Spatial Planning/ Department of Environment & Spatial Planning for the opinion of the Municipality of Domokos and the meeting dated 12.02.2015 between the representatives of the local authorities, EYDE / C&W GR CP and our J/V, it was jointly decided to construct additional sections at the connecting road of Ksiniada, to describe them in detail, and to integrate them into the EIS which has been submitted with Kentriki Odos letter no. CC.P.CC.16473/06.08.2014 (06.03.15).
20. In response to the request no. 11/30.01.2015 αιτήματος of the Mandatory Association of co-owned Forest Management & Joint Fodder of Makrirachi, Prefecture of Fthiotida, the Directorate of Coordination and Inspection of Forests of the Decentralized Administration of Thessaly and Central Greece with prot. no. 572/18143/03.03.2015 communicated its views regarding the procedures of the Environmental Licensing of the borrow pit at “Fournia” of Makrirachi, Prefecture of Fthiotida (06.03.15).
21. Following our J/V’s request dated 17.02.15, DIPA/YPAPEN returned - with prot. no. 146419/26.02.2015 – the J/V’s submission dated 01.04.2011, submission of Predesign of Environmental Impacts for the drilling of boreholes in the framework of the project Planting –Irrigation and Landscape Restoration for the section CH. 56+000 – CH. 90+000 of Central Greece Motorway (09.03.15).
22. Following our J/V’s request dated 17.02.15, DIPA/YPAPEN allowed us, with prot. no. 146313/26.02.2015, the submission – following J/V’s submission dated 05.06.2011 - of a Special Technical Implementation Study (STIS) for the environmental licensing of the worksite area of a temporary storage of aggregate

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- materials and asphalt units, at CH. 5+500, in “Sikia”, Local Community of Komma, Municipality of Lamia (09.03.15).
23. EYDE C&W GR CP transmitted, by letter no. A/6/00α/01/24/1838/05.03.2015, the objections of the Mandatory Association of co-owned Forest Management and Joint Fodder of Makrirachi of the Prefecture of Fthiotida which were submitted to DIPA/YPAPEN, regarding the EIS of the borrow pit at “Fournia”, Makrirachi, Prefecture of Fthiotida, and requested for our views (09.03.15).
  24. Following EYDE C&W GR CP letter no. A/6/00α/01/24/1838/05.03.2015 (see point 23 above), our J/V sent is views (11.03.15).
  25. Our J/V’s request to the Forestry of Karditsa for the opinion of the ownership, of a total area of 18.283,45 m<sup>2</sup>, for the creation of a permanent disposal pit, at “ONOHONOS” position, Municipality of Sofades, Prefecture of Karditsa, for the construction needs of the Project (20.03.15).
  26. Our J/V’s request sent to the Forestry of Karditsa for the opinion of the ownership, of a total area of 93.743,07 m<sup>2</sup>, for the creation of a permanent disposal pit, at “ONOHONOS” position, Municipality of Sofades, Prefecture of Karditsa, for the construction needs of the Project (20.03.15).
  27. In response to the request no. 186/13399/29.01.2015 of the Directorate of Technical Inspection of the Decentralized Administration of Thessaly and Central Greece, under which opinion and update of the opinions were requested for the issuance of the exploitation license of the borrow pit at “Fournia”, Local Community of Makrirachi, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida, the Mines Inspectorate of South Greece of YPAPEN sent, with prot. no. EMNE/Φ.23.32/208/18.03.2015, its positive opinion (23.03.15).
  28. Our J/V’s request to the Ephorate of Antiquities of Karditsa and the Service of Modern Monuments & Technical Works of Thessaly & Central Greece for an opinion, of a total area of 71.809,24 m<sup>2</sup>, for the creation of a disposal pit at the extracted and inactive area at “APLOMA” position, Municipal District of Ktimeni, Municipality of Tamassi, Prefecture of Karditsa, (code DS4N2), for the construction need of the Project (23.03.15).
  29. Our J/V’s request to the Ephorate of Antiquities of Karditsa and the Service of Modern Monuments & Technical Works of Thessaly & Central Greece for an opinion, of a total area of 126.927,01 m<sup>2</sup>, for the creation of a disposal pit at the extracted and inactive area at “LEIMANI” position, Municipal District of Kedros, Municipality of Sofades, Prefecture of Karditsa, (code DS4N4), CH. 60+000 for the construction need of the Project (23.03.2014).



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30. Our J/V's request to the Ephorate of Antiquities of Karditsa and the Service of Modern Monuments & Technical Works of Thessaly & Central Greece for an opinion, of a total area of 93.743,07 m<sup>2</sup>, for the creation of a permanent disposal pit no. 5, at "ONOHONOS" position, Municipality of Sofades, Prefecture of Karditsa, for the construction needs of the Project (26.03.15).
31. Our J/V's request to the Ephorate of Antiquities of Karditsa and the Service of Modern Monuments & Technical Works of Thessaly & Central Greece for an opinion, of an of a 18.243,45 m<sup>2</sup>, for the creation of a permanent disposal pit in CH. 70+500 to the right of the E65 axle, near Onohonos river, Municipality of Sofades, Prefecture of Karditsa, for the construction needs of the Project (26.03.15).
32. Our J/V's request to the Ephorate of Antiquities of Karditsa, the Service of Modern Monuments & Technical Works of Thessaly & Central Greece and the Forestry of Karditsa for an opinion regarding the construction of frontal toll stations at Sofades with the administrative building and the Anavra I/C lateral toll stations of Central Greece Motorway (E65) (27.03.15).
33. Following our J/V's letter dated 06.03.15 (see point 20 above), the department of Environmental & Spatial Planning of the Decentralized Administration of Thessaly – Central Greece/ Directorate of Environment & Spatial Planning requested, by letter no. 1180/48516/19.03.2015, the integration of the additional works to the EIS of Ksiniada branch (27.03.15).
34. Following our request dated 11.11.2014, EYDE C& W GR CP transmitted - by letter no. A/6/00α/01/24/1047/31.03.2015 – the DIPA/YPEKA letter no. 174376/17.12.2014 to return the Environmental Terms Amendment File µε of Central Greece Motorway (E65) at Lamia – Makrihori Section, for the environmental licensing of the subsection CH. 24+500 – CH. 31+212 (31.03.15).
35. Our J/V requested for the re-submission of the Environmental terms Amendment File of Central Greece Motorway (E65) at Lamia – Makrihori Section, for the environmental licensing of the subsection in CH 24+500 – CH. 31+212 (31.03.15).
36. Submission of a Technical Environmental Study (TEPEM) of Trikala Frontal Toll Stations and Administrative building, Proastio I/C Lateral Toll Stations and Trikala I/C Lateral Toll Stations (01.04.15).
37. Submission of Environmental Impact Study (EIS) for the environmental licensing of the Toll Stations and the Administration Building of E-65 Motorway: Frontal Toll



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- Station of Sofades and Administration Building and Lateral Toll Station of Anavra I/C (01.04.15).
38. Our J/V's request for an opinion sent to:
- The Ephorate of Antiquities of Trikala
  - The Service of Modern Monuments & Technical Works of Thessaly and Central Greece,
  - The Forestry of Trikala
- concerning the construction of Trikala frontal toll station regarding the construction of Trikala frontal toll stations with the administrative building, Proastio I/C lateral toll stations and Trikala I/C lateral Toll Stations of the Central Greece Motorway (E65) (07.04.15).
39. TEPEM submission concerning the asphalt mixer production unit at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa for the construction of E65 motorway, B2 subsection (CH. 90+500 – CH. 109+500) (16.04.15).
40. Our J/V's request for an opinion sent to:
- The Forestry of Karditsa
  - The Ephorate of Antiquities of Karditsa
  - The Service of Modern Monuments & Technical Works of Thessaly and Central Greece,
- concerning the installation of an asphalt mixer production unit at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa for the construction of Central Greece Motorway (E65) (17.04.15).
41. Following letter no. A/6/00α/08/24/2399/22.04.2015, EYDE C&W GR CP forwarded - by letter no. 21335/31.03.2015 – our J/V's request for resubmission of the project's Environmental Terms Amendment File, for the environmental licensing of the subsection CH. 24+500 –CH. 31+212 (11.03.15).
42. Our J/V's request for an opinion sent to:
- The Forestry of Karditsa
  - The Ephorate of Antiquities of Karditsa
- concerning the construction of the lateral toll stations of Proastio I/C of Central Greece Motorway (24.04.15).
43. Submitting the approved Technical Study of the Borrow Pit in "Kokkalitsa", Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida, στην Decentralized Administration of Thessaly & Central Greece Region/ Directorate of Technical Inspection (27.04.15).



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44. ADMIE (Independent Power Transmission Operator), by letter no. 21020/23.04.2015, applied for approval to EYDE C&W GR CP an Environmental Terms Amendment File of Central Greece Motorway (E65) Section Makrihori – Lamia, for the environmental licensing of the relocations of a high-voltage line (28.04.15).
45. In response to the J/V's request dated 27.03.2015 concerning the construction of Sofades frontal stations with administration building and Anavra I/C of E65 lateral toll stations, the Ephorate of Antiquities of Karditsa sent its positive opinion no. 788/20.04.2015 (28.04.15).
46. In response to the J/V's request dated 27.03.2015 concerning the creation of a borrow pit (no. 5) in "Onohonos", Municipality of Sofades , Prefecture of Karditsa (CH. 65+500) the Ephorate of Antiquities of Karditsa sent - with letter no. 774/22.04.2015 – its positive opinion (28.04.15).
47. In response to the J/V's request dated 23.03.2015 concerning the creation of a borrow pit in "Aploma" (code DS4N2), Local Community of Ktimeni, Municipal Community of Tamassi, Municipality of Sofades, Prefecture of Karditsa, the Ephorate of Antiquities of Karditsa sent - with letter no. 734/23.04.2015 - its positive opinion (28.04.15).
48. Our J/V's requested the Forestry of Lamia for an opinion regarding the modifications of the Central Greece Motorway at CH. 24+500 –CH. 31+212 (28.04.15).
49. In response to the J/V's request dated 17.04.2015 concerning the installation of an asphalt mixer production unit at the Local Community of Proastio, Municipal Unit of Sellana, Municipality of Palamas, Prefecture of Karditsa, the Ephorate of Antiquities of Karditsa sent – with prot. no. - 957/24.04.2015 its positive opinion (28.04.15).
50. In response to the J/V's request dated 24.04.2015 regarding the construction of Proastio I/C lateral Toll Stations at the local Community of Proastio, Municipal Unit of Sellana, Municipality of Palamas, Prefecture of Karditsa, the Ephorate of Antiquities of Karditsa with prot. no. 1009/27.04.2015 sent its positive opinion (28.04.15).
51. In response to the J/V's request dated 23.03.2015 regarding the creation of a disposal pit a t "Aploma" (code DS4N2), Local Community of Ktimeni, Municipal Unit of Tamassi, Municipality of Sofades, Prefecture of Karditsa, the Service of Modern Monuments & Technical Works of Thessaly & Central Greece sent, with prot. no. 731/31.03.2015, its positive opinion (29.04.15).



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52. In response to the J/V request dated 26.03.15 for an opinion, regarding the creation of a permanent disposal pit, at CH. 70+500 to the right of the E65 axle, near the Onohonos river, Municipality of Sofades, Prefecture of Karditsa, the Service of Modern Monuments & Technical Works of Thessaly & Central Greece sent, with prot. no. 733/31.03.2015, its positive opinion (29.04.15).
53. In response to the J/V request dated 27.03.2015 regarding the creation of a disposal pit (no. 5) at "Onohonos", Municipality of Sofades, Prefecture of Karditsa (CH. 65+500), the Service of Modern Monuments & Technical Works of Thessaly & Central Greece sent, with prot. no. 734/31.03.2015, its positive opinion (29.04.15).
54. In response to the /V request dated 27.03.2015 concerning the construction of Sofades lateral station with the administration building and Anavra I/C lateral toll stations of E65, the Service of Modern Monuments & Technical Works of Thessaly & Central Greece sent, with prot. no. 767/31.04.2015, its positive opinion (29.04.15).
55. Submitting inactivity declaration for the quarry of Borrow Pit Aggregates at "Kioskia" Local Community of Anavra, Municipal Community of Tamassi, Municipality of Sofades, Prefecture of Karditsa for 2014 (30.04.15).
56. Submitting inactivity declaration for the quarry of Borrow Pit Aggregates at "Kalamaki Vr.", Local Community of Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida for 2014 (30.04.15).
57. Submitting activity statement for the quarry of Borrow Pit Aggregates at "Geladaria", Local Community of Agia Anavra, Municipal community of Tamassi, Municipality of Sofades, Prefecture of Karditsa for 2014 (30.04.15).
58. Submitting inactivity declaration for the quarry of Borrow Pit Aggregates at "Aerodromio" or "Potamia", Local Community of Kefalovryso, Municipal community of Faloria Δ, Municipality of Trikaia, Prefecture of Trikala for 2014 (30.04.15).
59. Submitting inactivity declaration for the quarry of Borrow Pit Aggregates at "Aerodromio" or "Potamia", Local Community of Kefalovryso, Municipal community of Faloria, Municipality of Trikaia, Prefecture of Trikala for 2014 (30.04.15).
60. In response to the J/V request dated 23.03.2015 concerning the creation of a borrow pit on an already excavated and inactive region in "Leimani (DS4N4), CH. 60+000, the Service of Contemporary and Modern Monuments of the Districts of



## CENTRAL GREECE MOTORWAY (E-65)

- Thessaly and Central Greece sent, by letter no. 730/31.03.2015, its positive opinion (30.04.15).
61. In response to our request dated 23.03.2015 on the creation of a disposal pit of a total area of 126.927,01 m<sup>2</sup> in “Leimani” (code DS4N4) of the Local Community of Kedros, Municipal Unit of Menelaida, Municipality of Sofades, Prefecture of Karditsa, the Ephorate of Antiquities of Karditsa, stated with letter no. 735/24.04.2015 that, in order to give its opinion, it should conduct geophysical prospects in order to identify the extent of the antiquities and to avoid, if possible, the use of the excavation method, in order for the extent of the ancient residues to be specified within a short period. (05.05.15).
  62. EYDE/C&W GR CP forwarded, by letter no. A/6/00α/08/24/2573/30.04.2015, the Environmental Impact Study (EIS) on the environmental licensing of the Toll Stations and the Administration Building of the Toll station of E65 Motorway: Frontal Toll Stations of Sofades and Administration Building of the Station and Lateral Toll Stations of Anavra I/C submitted by our J/V on 01.04.15 to DIPA/YPAPEN (05.05.15).
  63. In response to our request dated 26.03.2015 on the creation of a disposal pit of a total area of 18.243,45 m<sup>2</sup> at “Onohonos”, Municipality of Sofades, Prefecture of Karditsa, the Ephorate of Antiquities of Karditsa sent, with prot. no. 775/04.05.2015, its positive opinion (07.05.15).
  64. In response to our request dated 07.04.2015 on the construction of Trikala frontal toll station with the administration building, Proastio I/C lateral toll stations and Trikala lateral toll station, the Ephorate of Antiquities of Trikala sent, with prot. no. 1308/27.04.2015, its positive opinion for the stations (frontal and lateral) of Trikala (07.05.15).
  65. Submitting the revised EIS for the improvement of the road connecting the NR of Lamia – Karditsa with Central Greece Motorway at Ksiniada I/C (07.05.15).
  66. EYDE C&W GR CP forwarded, with prot. no. A/6/00α/08/24/2668/29.04.2015, the TEPEM of the asphalt production worksite at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa to DIPA/YPAPE submitted by our J/V on 16.04.2015 (08.05.15).
  67. EYDE C&W GR CP forwarded, by letter no. A/6/00α/08/24/2574/29.04.2015, the TEPEM of Trikala Frontal Toll Stations and administration building, Lateral Stations of Proastio I/C and Lateral Stations of Trikala I/C submitted on 01.04.2015 by our J/V to DIPA/YPAPE (08.05.15).



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68. Submitting fees and letter of guarantee to the Decentralized Administration of the Region of Thessaly & Central Greece for the approval of a direct leasing of a public land of a total area of 83.140,28 m<sup>2</sup> in “Kokkalitsa”, Local Community of Makrirachi, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida and licensing of borrow pit – quarry of aggregate materials exploitation (08.05.15).
69. Request to the Ephorate of Antiquities of Fthiotida and Evritania for an opinion regarding the revised EIS on the improvement of the road connecting Lamia – Karditsa NR with Central Greece Motorway at Ksiniada I/C A (11.05.15).
70. The Forestry of Karditsa sent, by letter no. 1380/71122/07.05.2015, the positive opinion regarding the installation of an asphalt production worksite at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa (12.05.15).
71. In response to our request dated 27.01.2015 for an opinion regarding the modifications on the alignment and the creation of an Operating Infrastructure Site at CH. 24+500 – CH. 31+212, the Forestry of Lamia requested, with prot. no. 192974644/30.04.2015, for the submission of additional information (13.05.15).
72. Request to EYDE OSYE/Karditsa Project Construction Department for an opinion concerning the creation of a borrow pit at the extracted and inactive region in “Aploma”, Municipal Unit of Tamassi, Municipality of Sofades, Prefecture of Karditsa (14.05.15).
73. The Forester of Karditsa issued, by letter no. 462/23914/08.05.2015, an estoppel certificate no. 5648/241415/19.11.2014 of the Characterization Act of the land of a total area of 519.508,77 m<sup>2</sup> (concerning the extent of the amendments of section CH. 47 – CH. 52) (14.05.15).
74. Request submitted to the Service of Modern Monuments & Technical Projects of Thessaly & Central Greece regarding the opinion on the revised EIS for the improvement of the road connecting Lamia – Karditsa NR with the Central Greece Motorway at Ksiniada I/C (18.05.15).
75. Following letter no. CC.P.CC.18104/15.05.2015 Kentriki Odos submitted to EYDE C&W GR CP the EIS on Ksiniada connecting road (19.05.15).
76. Following letter no. 848/04.05.2015, the Service of Modern Monuments & Technical Projects of Thessaly & Central Greece sent its positive opinion regarding the construction of Trikala frontal toll stations with the Administration building and the lateral toll stations of Proastio and Trikala I/C (19.05.15).





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77. Following letter no. 922/05.05.2015, the Service of Modern Monuments & Technical Projects of Thessaly & Central Greece sent its positive opinion regarding the installation of asphalt production worksite at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa (19.05.15).
78. Request sent to the Coordination & Monitoring Office of Archaeological Investigations and Works in the framework of Major Projects regarding the revised EIS for the improvement of the road connecting the Lamia – Karditsa NR with the Central Greece motorway at Ksiniada I/C (EM-sk\_19.05.15).
79. In response to our J/V's relevant request (disposal pit of "Aploma"), EYDE K.Y.Y/ Construction Department of Karditsa Projects sent, by letter no. 216/19.05.2015, its positive opinion (25.05.15).
80. Submitting the positive opinions of the Archaeological services regarding the TEPEM of asphalt production worksite at the Local Community of Proastio, Municipal Unit of Sellana, Prefecture of Karditsa to DIPA/YPAPE (25.05.15).
81. Submitting the positive opinions of the archaeological services concerning the TEPEM of Trikala frontal toll stations with the Administrative building and the Proastio I/C and Trikala I/C lateral toll stations to DIPA/YPAPE (25.05.15).
82. Request to the Forestry of Lamia for installation protocol at the borrow pit in "Kokkalitsa", Municipal Unit of Ksiniada, Prefecture of Fthiotida (26.05.15).
83. EYDE C&W GR CP transmitted, by letter no. A/6/00α/08/24/2321/26.05.2015, the EIS for Ksiniada connecting road (28.05.15).
84. Submitting the positive opinions of the archaeological services concerning the EIS of Sofades frontal toll stations with the Administration building and the Anavra I/C lateral toll stations to DIPA/YPAPE (28.05.15).
85. The General Secretary of Decentralized Administration of Thessaly – Central Greece decision no. 703/60639/14/19.05.2015 approved the direct leasing and licensing of exploitation of the aggregate area in "Kokkalitsa", Local Community of Makrirachi, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (20.05.15).
86. In response to our request dated 07.04.2015 for opinion regarding the construction of Trikala frontal toll stations with the administration building, Proastio I/C lateral toll stations and Trikala I/C lateral toll stations of Central Greece Motorway (E65), the Forestry of Trikala requested, with prot. no. 1933/64211/27.05.2015, the submission of relevant information in order to proceed to the issuance of the characterization act (02.06.15).



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87. In response to our J/V request dated 11.05.2015 for opinion regarding the revised Environmental Impact Study (EIS) on the Improvement of the road connecting Lamia – Karditsa NR with Central Greece Motorway at Ksiniada I/C, the Ephorate of Antiquities of Fthiotida and Evritania sent, with prot. no. 2435/22.05.2015, its positive opinion to the Ministry of Culture, Education and Religious Affairs/ Office for the Coordination & Monitoring of Archaeological Works in the framework of the Major Projects (05.06.15).
88. EYDE C&W GR CP submitted, with prot. no. A/6/00α/08/24/2771/03.06.2015, an amendment file of the environmental terms of the project “Central Greece (E65) Road Axle Makrihori – Lamia Section” to DIPA/YPAPEN regarding the relocation or reconstruction of pillars of the existing Transmission Line (TL) 400kV Trikala – Distomo, due to their involvement with the Motorway E65 project (09.06.15).
89. EYDE C&W GR CP transmitted, with prot. no. A/6/00α/01/24/3380/09.06.2015, DIPA/YPAPEN letter with prot. no. 148985/20.05.2015 according to which the submission of extra copies of the Amendment File of ETA JMD no. 145504/18.11.2005 entitled “Central Greece (E65) Road Axle for Makrihori – Lamia section” is requested (E65), (as amended and in force), regarding the environmental licensing of the motorway final design at section CH. 24+500 –CH. 31+212 (17.06.15).
90. Following EYDE C&W GR CP letter no. A/6/00α/01/24/3380/09.06.2015, our J/V submitted the requested extra copies of the Amendment File of the ETA JMD no. 145504/18.11.2005 of the project “Central Greece (E65) Road Axle, Makrihori – Lamia section” (as amended and is currently in force), regarding the environmental licensing of the motorway final design at CH. 24+500 – CH. 31+212 (18.06.15).
91. In response to our J/V request dated 11.05.2015 on the opinion concerning the revised Environmental Impact Study (EIS) for the improvement of the road connecting Lamia – Karditsa NR with Central Greece Motorway at Ksiniada I/C, the Service of Modern Monuments and Technical Projects of Thessaly sent, with prot. no. 1085/28.05.2015, its positive opinion (18.06.15).
92. The Department of Physical Resources of the Decentralized Administration of Thessaly – Central Greece requested, with prot. no. οικ. 1281/106462/23.06.2015, from the Forestry of Lamia the appointment of a representative for the establishment of a delivery – acceptance committee of the aggregate area in “Kokkalitsa”, Local Community of Makrirachi, Municipal Unit of Ksiniada, Municipality of Domokos, Prefecture of Fthiotida (22.06.15).



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93. Kentriki Odos S.A. submitted, by letter no. CC.P.CC.18229/22.06.2015, the extra copies of the Environmental Terms Amendment File of Central Greece Motorway (E65) Makrihori – Lamia section concerning the environmental licensing of section CH. 24+500 – CH. 31+212 (23.06.15).
94. Submission of opinions of archaeological services regarding the Environmental Terms Amendment File of Central Greece Motorway (E65) at Makrihori – Lamia section concerning the environmental licensing of section CH. 24+500 – CH. 31+212 (25.06.15).
95. The Ephorate of Antiquities of Fthiotida and Evritania sent, by letter no. 3246/16.06.2015, its positive opinion to the Decentralized Administration of Thessaly and Central Greece on the revised EIS concerning the improvement of the Lamia – Karditsa connecting road with the Central Greece Motorway at Ksiniada I/C (26.06.15).
96. The Forestry of Karditsa sent, by letter no. 1437/73083/24.06.2015, its positive opinion on the construction of Lateral Toll Stations at Proastio I/C (29.06.15).

### 4.1.2 Project Environmental Designs

The contractual scope of the Constructional Joint Venture is to prepare the relevant technical and other designs for the implementation of the project. Furthermore, the environmental terms of the project referred to the relevant hydraulic and landscaping designs should be conducted for the construction of the project. The J/V of the project has commissioned to a specialized design office the elaboration of the environmental studies required to grant permits for the modifications that arise from the finalization of the works have been assigned. The designs are prepared by the Construction Joint Venture and are submitted to the Concessionaire in order to promote them for approval to the Owner of the Project (PWGD/EYDE C&W GR CP) and the department of YPAPEN (former YPEKA), i.e. the Directorate of Environmental Licencing (DIPA - former Special Environmental Service - EYPE). The environmental studies of the project are presented in the following table (table 4.1.2-1 & 4.1.2-2).

**Table 4.1.2-1**

**Joint Ministerial Decision / Road Work Designs**

No.	Decision Protocol No.	Decision Title / Project Section
1.	Joint Ministerial Decision 144504/18.11.2005	“Central Greece (E65) Road Axis / Makrihori – Lamia”
2.	Director General for the Environment Decision  YPEKA prot. no. 167266/01.04.2013	Decision Amending AET JMD  144504/18.11.2005 (CH. 0+000 – CH. 14+500)
3.	MD 173471/23.06.2014	Decision no. 144504/18.11.2005 amending the JMD ETA. It refers to subsection CH. 31+212 – CH. 85+800, section CH. 47+313 – CH. 51+843 is excluded.
4.	MD 147997/14.04.2015	Decision no. 144504/18.11.2005 amending the JMD ETA – as amended and in force, referring to section CH. 47+313 – CH. 51+843
5.	Joint Ministerial Decision 145521/18.11.2005k	“Central Greece (E65) Road Axis / Makrihori – Kalampaka”
6.	Director General for the Environment Decision  YPEKA prot. no. 203583/04.12.2011	Decision Amending AET JMD 145521/18.11.2005  Cut & Cover in CH 137+000
7.	Director General for the Environment Decision  YPEKA prot. no. 172041/26.11.2013	Amendment of AET JMD 145521/18.11.2005  Amendments in Makrihori – Kalampaka  It refers to section CH. 85+800 – CH. 137+550

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No.	Decision Protocol No.	Decision Title / Project Section
8.	Joint Ministerial Decision 147014/18.11.2005	"Central Greece (E65) Road Axis / Kalampaka - Egnatia Odos & Agia Paraskevi I/C" for its connection with Egnatia Odos".
9.	Joint Ministerial Decision 103681/05.05.2006	"Connecting road of the Smokovo I/C with the existing road network". The said project does not constitute scope of the Concession Agreement anymore.
10.	Joint Ministerial Decision 146113/12.07.2005	Skarfia - Thermopiles at the section of Skarfia - Lamia of the PATHE Motorway
11.	Joint Ministerial Decision 126696/06.06.2007	Amendment of the Joint Ministerial Decision 146113/12.07.2005. The amendment refers to the approval of the Borrow Pits
12.	122881/08.03.2010 EYPE/YPEKA	Environmental licensing of Agia Triada and Molos I/C toll stations of PATHE motorway
13.	Joint Ministerial Decision 131550/04.05.2003	"Optimization of the National Road to a PATHE motorway, Skarfia - Lamia section, subsection from the beginning of the Thermopiles Interchange to Nea Kiti of Sperchios river".
14.	121668/08.02.2010 EYPE/YPEKA	Environmental licensing of the toll station in Thermopiles I/C of PATHE motorway
15.	MD 146836/05.03.2015	Amendment and renewal of the environmental terms of the section from Thermopiles I/C to Nea Kiti Sperchios of PATHE motorway.
16.	Joint Ministerial Decision	"Optimization of the National Road to a

## CENTRAL GREECE MOTORWAY (E-65)

No.	Decision Protocol No.	Decision Title / Project Section
	146109/30.09.2005	PATHE motorway, section from Nea Kiti of Sperchios river to Roditsa Interchange”.
17.	145496/21.05.2015 EYPE/YPEKA	Environmental terms amendment of section from Nea Kiti Sperchios to Roditsa I/C of PATHE motorway, as regards minor amendments at Roditsa junction and its adjacent sections.
18.	Joint Ministerial Decision 130665/02.05.2003	“Optimization of the National Road Athens - Thessaloniki to a motorway that will serve Patra - Athens - Thessaloniki - Evzoni (PATHE), Lamia - Raches section, subsection at CH.3+500 to CH.12+000”
19.	JMD 195214/11.01.2011	Amendment of the 130665/02.05.2003
20.	Joint Ministerial Decision 100198/30.05.2006	“Overall Bypass at Stylida – Karavomylos”
21.	121667/08.02.2010 EYPE/YPEKA	“Environmental licensing of the toll stations of Agia Marina – Stylida ICs and Stylida – Karavomylos I/C of PATHE motorway”
22.	Decision 172866/23.05.2014	Amendment and renewal of the environmental terms of the project “Stylida – Karavomylos Total Bypass” of PATHE motorway.

**CENTRAL GREECE MOTORWAY (E-65)**

**Table 4.1.2-2**

**Joint Ministerial Decision / Road Work Designs submitted by the Construction J/V**

No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
1.	Report for the determination of environmental permit procedures of the modification project of Central Greece Road Axis (E-65) in Lamia – Makrihori section (CH. 0+000 – CH. 14+500)  (Supporting documentation of art.13 of JMD with no 11014/703/Φ104/2003 KYA)	6484/10.03.2010	----	----
		14111/22.06.2011	----	Resubmission
		15414/08.11.2012	167266/01.04.2013	Submission of 2 extra copies.  <u>Approval:</u> no. 167266/01.04.2013  JMD EPO Amendment Decision no. 144504/18.11.2005
2.	Report for the determination of environmental permit procedures of the modification project of Central Greece Road Axis (E-65) in Makrihori – Kalampaka section (CH. 14+500 – CH. 85+800)  (Supporting documentation of art.13 of JMD with no 11014/703/Φ104/2003 KYA)	12005/04.01.2011	----	Submission
		14129/23.06.2011	----	Resubmission  EYPE/YPEKA with prot. no. 203089/13.11.2012 requested for the EIS submission
3.	Additional Environmental	12015/05.01.2011	MD 147997/14.04.2015	Approved

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
	Impact Assessment for the improvement of CH. 47+000 – CH. 56+000 (of Smokovo semi section)			
4.	Environmental Terms Amendment file of Central Greece (E65) Motorway at Lamia – Makrihori (JMD ETA 144504/18.11.2005), for the environmental licensing of subsection CH. 24+500 – CH. 31+212.	18588/30.05.2014	---	Submission.  Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections.
		20297/11.11.2014	---	Withdrawal of study in order for our J/V to re-examine and re-submit the reviewed version, if required, in the future.
5.	Amendment file pursuant to Article 6 of Law 4014/2011 for the environmental licensing of the amendments at the project sections CH. 31+212 – CH. 85+800 (excluding section CH. 47+313 – CH. 51+843).	15991/18.02.2014	MD 173471/23.06.2014  Decision amending JMD ETA no. 144504/18.11.2005	Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections.
6.	Environmental Impact Study for the environmental licensing of the amendments of section CH. 47+313 – CH. 52+840.	16362/28.04.2014	MD 173471/23.06.2014	Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections.  Approved.



## CENTRAL GREECE MOTORWAY (E-65)

No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
7.	Report for the definition of procedures of environmental licensing for the Central Greece (E-65) in section of Makrihori – Kalampaka (CH. 85+800 – CH. 137+550)  (File under Article 13 of JMD 11014/703/Φ104/2003)	3113/23.07.2009	----	The design was submitted by EOSA with protocol no A248145/04.03.2010  The design has been given back by EYPE with protocol no 122785/26.04.2010
		3786/21.09.2009		
		4796/27.11.2009		
		5097/14.12.2009		
		6005/11.02.2010		
		12006/04.01.2011	----	Resubmission
		14130/23.06.2011	Director General for Environment / YPEKA Decision prot. no. 172041/26.11.2013	Resubmission and Approval: YPEKA Gen. Director Decision no. 172041/26.11.2013.
8.	Environmental Impact Assessment for the relocation of Kalampaka MSS (CH. 132+000) to a new location near Trikala (CH. 117+000)	11990/04.01.2011	----	Resubmission
		----	---	Return of the design by EOSA for resubmission (A282383/26.01.2011)
		13178/22.03.2011	---	Resubmission and <u>rejection</u> : YPEKA Gen. Dir. of Env. Decision no. 172041/26.11.2013
		19067/27.06.2014	Expected to be approved	Resubmission
9.	Environmental Impact Assessment for the Cut & Cover construction in CH. 137+000 with recoverable materials	12854/28.02.2011	----	Submission
				Return of the design by EOSA for resubmission (A287258/17.03.2011)
		13726/09.05.2011	203583/04.12.2012	Resubmission  <u>Approval</u> : there are

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
				substantive differences in the impact on the environment, and environmental conditions approved by JMD A.E.T no. 145521/18.11.2005 shall apply
10.	Environmental Impact Assessment for the Cut & Cover construction in CH. 138+400 with recoverable materials	12854/28.02.2011	----	Submission  Negative response EOSA (A287258/17.03.2011) due to the fact that the said project belongs to the JMD 147014/18.11.2005 which is suspended in the interim order of the Council of State
		13726/09.05.2011	----	Resubmission
11.	EIS for the amendment of the Environmental Terms of north subsection of "Kalampaka Egnatia" section of Central Greece Motorway (E65)	20580/18.12.2014	Expected to be approved	Submission
12.	Connecting road from Anavra to Thavmakos (A' Section) of a length of 13,5 km. in replacement of the connecting road Smokovo – Monastiri, of 9 km. approximate length (additional EIS)	12016/05.01.2011	EYPE/YPEKA letter no. 198627/28.05.2012 transmitted to the Directorate of Environment and Spatial Planning of Central Greece due to jurisdiction, in accordance with the new classification of projects and activities of	Since the major section of the proposed alignment of the road is within the limits of Karditsa, the Directorate of Environment and Spatial Planning of Central Greece asks EOAE with a relevant document (prot. no. DI.PE.CHO.S. of Central



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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
			the M.D. 1958/2012 (OGG 21B/13.01.2012)	Greece 2803/117679/12.07.2012 to submit an issue of this EIS to DI.PE.CHO.S. of Thessaly of the Decentralized Administration of Thessaly - Central Greece.  The said project does not constitute scope of the Concession Agreement anymore.
13.	Improvement of the road connecting Lamia – Karditsa NR with Central Greece Motorway at Ksiniada I/C (EIS)	19516/04.08.2014	Request by the Environmental and Planning Design dpt. of Thessaly Decentralized Administration for the integration of adjacent projects in the EIS (prot. no. 1180/48516/19.03.2015)	Submission
		21584/07.05.15	Submission of EIS reviewed	
14	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection Skarfia – Thermopiles of Skarfia – Lamia section, in Agia Triada and Molos I/C locations.  (File pursuant to article	3907/28.09.2009	122881/08.03.2010 EYPE / YPEKA	Approved

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
	13 of the JMD 11014/703/Φ104/2003)			
15.	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection of Thermopiles I/C beginning – Nea Kiti of Sperchios of Skarfia – Lamia section, in Thermopiles I/C location (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	121668/08.02.2010 EYPE/YPEKA	Approved
16.	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection Roditsa I/C end – Agia Marina I/C beginning of Lamia – Raches section, in Agia Paraskevi and Mavromantila I/C.  (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	JMD 195214/11.01.2011	Approved
17.	Study for the Environmental Licensing	4049/08.10.2009	121667/08.02.2010 EYPE / YPEKA	Approved

## CENTRAL GREECE MOTORWAY (E-65)

No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
	<p>of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection of Agia Marina I/C beginning, Stylida –Raches I/C of Skarfia - Raches section, in the locations of Agia Marina I/C, Stylida and Stylida I/C – Karavomilos.</p> <p>(File pursuant to article 13 of the JMD 11014/703/Φ104/2003)</p>			

### 4.1.3 Special Designs

No special designs have been prepared during the A' semester of 2015.

Special Service for Quarries Restoration at Aploma, Municipal District of Ktimeni, Municipality of Tamassi, Prefecture of Karditsa. This is an existing inactive quarrying area which is suggested to be restored by means of re-embankment and landscaping. Our J/V carried out the study and submitted it for approval to the Forestry of Karditsa (prot. no. J/V 21019\_CC-P-CO-T100N\_EM-sk\_19.02.15).

### 4.2 ANTIQUITIES

The Constructional Joint Venture is in direct communication with the competent archaeological services. Based on the Concession Agreement and the Design/Construction Agreement, the J/V is responsible for performing trial archaeological cuts following the competent authority's instructions.

The following table (table 4.2-1) presents in detail the up-to 30.06.2015 situation performed in the reserved areas.

## CENTRAL GREECE MOTORWAY (E-65)



### TABLE OF SITES RESERVED BY THE ARCHAEOLOGICAL SERVICE CH. 32+000 – CH. 111+000, DECEMBER 2014

## CENTRAL GREECE MOTORWAY (E-65)

S/N	Starting CH.	Ending CH.	Place Name	Release Document	Remarks	Works Fault Length – Description of technical scope
1	39+280	39+340	Perivoli	Fthiotida & Evritania Ephorate of Antiquities: 377/14-11-14 (JV 20360)	Interruption of excavating works and need to secure the area upon completion of the excavating investigation. EAFE informed us with letter no. 6644/19-12-14 (J/V 20713) on the commencement of excavation investigation from 7-1-15. EYDE/ C&W GR CP letter no. /6/00α/15/19/1084/17-2-15 (J/V 21006) asked ΕΑΦΕ for its immediate actions, in order to release the area, since the excavation investigations were not yet executed. EAFE letter no. 898/18-02-15 (J/V 21100) informed the EYDE that the investigations had not started due to technical difficulties and adverse weather conditions. Conduct of archaeological investigations.	39+280 - 39+340 : Motorway fault length: 60m
2	56+000	56+200	Alonaki	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV/ 20909)	The site to be investigated is located beyond the limits of Anavra – Smokovo lake paved road. It has not been made available to the Archaeological Service.	
3	63+320	63+390	Faneromeni	Ephorate of Antiquities: 270/02-02-15 (JV 20909)	The archaeological research refers to the remaining residues, investigated in 2010 on the main arterial road, on the limits of the lateral road and the drainage ditches.	Lateral road & trenches.
4	63+980	64+082	Faneromeni	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV 20909)	The archaeological research refers to the remaining residues, investigated in 2010 on the main arterial road, on the limits of the lateral road and the drainage ditches.	Lateral road & trenches.
5	64+982	64+999	Kalathia	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV 20909)	The archaeological research refers to the remaining residues, investigated in 2010 on the main arterial road, on the limits of the lateral road and the drainage ditches.	Lateral road & trenches.

## CENTRAL GREECE MOTORWAY (E-65)

6	67+917	68+006	Tataria or Psilomata	ΛΔ' EPKA: 2856/15-09-14 (JV 19952)	ΛΔ' EPKA's letter with prot. No. 3092/26-09-14 (JV 20063) underlines that the removal of the deposited topsoil in the southern area are pending and the conduct of the test excavation to be occupied by the D141 trench. Archaeological investigation in progress.	Trench D141
7	73+985	74+020	Ag. Paraskevi	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV 20909)	Archaeological investigation referring to the remaining residues, investigated in 2010 on the main arterial road, the limits of the lateral road and the drainage ditches.	
8	76+340	76+470	Karpohori	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV 20909)	Archaeological investigation referring to the remaining residues, investigated in 2010 on the main arterial road, the limits of the lateral road and the drainage ditches.	
9	86+595	86+666	Ag. Varvara	Karditsa Ephorate of Antiquities: 412/03-12-14 (JV 20655)	Identification of findings on November 2014. Archaeological excavation in progress.	Trench D279
10	86+738	83+809	Ag. Varvara	Karditsa Ephorate of Antiquities: 412/03-12-14 (JV 20655)	Identification of findings on November 2014. Archaeological excavation in progress.	Trench D279
11	99+040	99+240	Palioklissi	Karditsa Ephorate of Antiquities: 270/02-02-15 (JV 20909)		





## CENTRAL GREECE MOTORWAY (E-65)

### 4.3 ENVIRONMENTAL MONITORING

#### 4.3.1 Waste Management

All types of waste are being managed based on the requirements of the Greek legislation for the environment and the environmental terms of the project. For the construction of the project, worksites manage waste in accordance with the directives for environmental management, which will be monitored by the Department for the Environment of the Joint Venture, until the completion of the Design - Construction Period.

The following table (table 4.3.1-1) presents the method of waste management as well as the quantities of waste which were ecologically managed within semester A' of 2015 under the construction of the project.

**CENTRAL GREECE MOTORWAY (E-65)**

**Table 4.3.1-1:  
Waste Disposal Table**

<b>Waste management outside the Installation</b>								
<b>Waste type</b> <i>(6-digit code E.W.C.)</i>	<b>Waste description</b> according to the <u><b>European Waste Catalogue</b></u>	<b>Quantity of waste the management of which was held outside the installation of the reference year (t)</b>	<b>Waste Collector Name</b>	<b>YPEHODE registration no. / Collector Licence no.</b>	<b>The relevant identification forms for the collection and transportation are completed? (Yes/No)</b>	<b>Waste Reception Facility Name</b>	<b>Management work of the column waste quantity</b>	<b>Licence no.</b>
130206 *	waste engine, gear and lubricating oils	3,56	Dimitrios Livardos Achaean Lubricants S.A.	122406/1509/27-08-09	Yes	ACHAEAN LUBRICANTS S.A		188560/19-01-2012
130206 *	waste engine, gear and lubricating oils	3,08	Verde planet	5864(51281/1269) 9-2-2015	Yes	Verde planet		
160107 *	Oil filter	1,10	POLYECO	51662/4390/26-09-2013 YPEKA	Yes	POLYECO		EYPE 168510/31-05-2013
170405	Iron and steel	173,320	Tollias			Chr. & Vass. Tollias		
170405	Iron and steel	176,750	Group Afoi Florou	ΔΑ/Φ14.1338/2359/15-9-2006		Group Afoi Florou A.E.		3035/85942/04-08-2011 Decentralized Administration of Thessaly
150102	Plastic package	6,72	Group Afoi Florou	ΔΑ/Φ14.1338/2359/15-9-2006		Group Afoi Florou S.A.		3035/85942/04-08-2011 Decentralized Administration of Thessaly
200301	Mixed municipal waste	7,45	Municipality of Trikala					
<b>TOTAL</b>		<b>371,98</b>						
<b>Waste storage within the Installation (Temporary storage)</b>								
<b>Waste type</b> <i>(6-digit code E.W.C.)</i>	<b>Waste description</b> according to the	<b>Waste quantity stored within the installation during the reference</b>	<b>Quantity of stored waste from previous years (t)</b>		<b>Storage commencement</b>	<b>Total quantity of stored waste from previous years and until the</b>		



**CENTRAL GREECE MOTORWAY (E-65)**

	<u>European Waste Catalogue</u>	year (t)		year	end of the reference year (t)
160107 *	Oil filter	0,05	0,00	2015	0,5
160103	end-of-life tires	7,05	0,00	2015	7,05
<b>TOTAL</b>		<b>7,10</b>	<b>0,00</b>		<b>7,10</b>

## CENTRAL GREECE MOTORWAY (E-65)

### 4.3.2 Air Pollution

A parameter control plan is applied in order to reduce impact on the community, on the natural environment, etc.

According to the Environmental Impact Assessment (EIA) of the road works, no excess of dust emission limit is expected greater than 20m from the works at all the length of the motorway under construction and worksite areas. However, all necessary measures to reduce dust emission are taken, such as water springing, filter bags etc.

Up to date, there are no complaints - reminders from the air pollution resulted by the construction of the project.

### 4.3.3 Vibrations

A parameter monitoring plan is under development in order to reduce impact on the community, on traffic, on public utility networks, etc. Up to date, there are no complaints - reminders from the vibrations resulted by the construction of the project. Also, all materials extraction sites proposed by the Construction J/V (excluding the borrow pits at Kokkalitsa – BP3N6), for the needs of the construction of the road project, do not require the use of explosives for their exploitation. Furthermore, all works producing strong vibrations are located at a long distance from the sensitive receivers.

### 4.3.4 Noise

The Construction Joint Venture monitors the noise emitted during the entire construction process, in order to ensure compliance with the applicable noise levels provided by law and, in the event of exceeding the limits, all required measures are taken.

To record noise during the construction stage, measures were taken during the A' semester of 2015. For this specific period, the sites to which measurements were performed are the following:

- Construction works of T3 tunnel exit
- Excavation works at CH. 58+000 (Anavra settlement)
- Construction works of Pinios bridge
- Construction works of Loggos junction at Trikala



## CENTRAL GREECE MOTORWAY (E-65)

The specific measurements feature sampling of noise emissions during the construction works.

The above mentioned measurements record the noise emitted during the operation of the machines at the worksites.

For the execution of the noise emission measurements, the following instruments of a CASTLE type 2 Integrating precision Echo meter, model GA 216 I were used, in compliance to IEC61672-1-2002 specifications and an Echo meter calibrator CASTLE GA 601.

The aim of noise measurement is to record noise emissions from the construction works in conjunction with the possible points of increased noise, in order to take all noise protection measures required. For the specific aim, at every measurement the Leq noise indices were recorded: Equivalent constant sound level (in compliance to IEC 651) in dB (A).

The time period of the sampling noise measurements was 7-10 min; that is the time required to fully record the noise incident.

The sampling measurements were taken in the perimeter of each work spot (location A1) and at a distance of 200m (location A2) during the operation of various types of machines. The purpose of these measurements was to record the acoustic environment that includes noise caused by the construction and noise caused by other sources, which may affect adversely the adjacent to the worksite areas and the structure faces there.

### 4.3.4.1 Results of sampling measurements

During the noise emission measurements, smooth atmosphere conditions were observed, whereas no other source of noise was detected with the exception of the usual ambient noise and the worksite sources, except for the worksite

The average atmosphere conditions during the noise measurements were the following:

- ┆ Temperature from 12 to 33o C
- ┆ Sunlight

## CENTRAL GREECE MOTORWAY (E-65)

- Weak winds

The results of the measurements are presented in the following tables.

<i>TUNNEL - CH. 46+510</i>			
MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	341051	4331452	66,2
A2	341069	4331571	63,4

<i>TRENCH - CH. 58+500</i>			
MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	331320	4339377	58,8
A2	334511	4339379	55,0

The location related to point A1 is located at a distance of approximately 400m from the excavation front and approximately 450m from the nearest settlement of Anavra. Therefore, the settlement of Anavra is about 1 km. far from the source causing the noise.

<i>BRIDGE - CH. 103+700</i>			
MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	314007	4375436	65,9
A2	313749	4375460	63,4

## CENTRAL GREECE MOTORWAY (E-65)

In this particular structure face there are not possible disturbance sites.

<i>LOGGOS I/C, TRIKALA- CH. 106+000</i>			
MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	3143061	4377347	63,8
A2	313359	4377329	65,0

In this particular structure face there are possible disturbance sites located at a distance of approximately 280m to 420m from the works front.

According to the results of the above mentioned measurements, the noise emitted due to various construction works doesn't affect any area close to the works. All works following the measurements carried out, were performed based on the applicable limits provided by the standing legislative framework, as well as from the Environmental Terms of the "Aftokinitodromos Central Greece Motorway E65" project.

Up to date, there are no complaints - nuisances from the noise resulted by the construction of the project.

### 4.3.5 Water resources

All measures related to the prevention of pollution - burden to the waters through methods of good worksite practice and their monitoring, under the Program of Environmental Monitoring and Control, are taken. For the specific purpose, holding tanks connected to oil removers have been developed at various worksites aiming to the monitoring of the perimeter at the source of pollution (runoff tanks). PH measurements at the exit of the tank and at its confluence to the natural recipient showed that the PH of the waters of the natural recipient remains stable.

At the protection of the water resources framework, specialized risk assessment studies for the treatment of accidental pollution and the avoidance of pollution of ecologically sensitive wetlands of:



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- Sperchios river
- Kalentzi river
- Pinios river
- Reservoir of Smokovo  
with oils or hazardous substances.

Also, in the protection of the water resources framework during the development of the project phase, a series of measures are taken, featuring the operation of oil removers, settling tanks, biological cleaning, chemical toilets, etc.

Finally, the use of hazardous substances is limited to the minimum required, as is the case with other substances that may alter the qualitative characteristics of the water sources.

### 4.3.6 Natural Environment

During the construction, the Construction J/V applies a special monitoring program for wildlife under the Environmental Terms of the Project. The results of the monitoring program are submitted quarterly to the Division of Environmental Planning of YPEKA.

It is noted that the monitoring program includes:

- A) The preparation of a new program by the J/V – E-65 (Contractor: NGO Callisto) during 2009 – 2010, for E-65 from CH. 43+000 – CH. 60+000 and
- B) Update of the proposals which had been expressed for E-65 from CH. 20+000 to CH. 47+000 approximately, in the framework of the “Monitoring Program of the wolf and the big mammals”, drawn up on 2005 - 2006 by ERGOSE for the project of the New rail line between Lianokladi RS - Domokos RS (Contractor: D. Argyropoulos, SSE EPE, GAMMA4 EPE and G. Giannatos with Callisto NGO as a special partner), due to the proximity of the two projects and their synergistic consequences. The update of the proposals for CH. 20+000 to CH. 43+000 was based on the data of ERGOSE program (2005 - 2006) as well on the new data (works and methods of field, results – analysis, literature reviews) resulted by the preparation of the E-65 J/V (2009 - 2010) program.

Also, the monitoring program takes into consideration the data resulted by the preparation of corresponding programs in the broader area. Particularly in the north part of the area of the project, a relevant monitoring program of the wildlife has been developed (first phase) under Egnatia Odos SA responsibility. It has to be noted that the works in the north part of the project area didn't start yet, since





## **CENTRAL GREECE MOTORWAY (E-65)**

the section is under suspension following the temporary order on behalf of the Council of State.

The ultimate goal of the above is the most comprehensive handling of the effects caused by the large infrastructure projects in the ecosystem (fauna) of the project area. Two most recognized non-governmental organizations, 'Arcturus' and 'Callisto' are also involved in the overall effort.

### **4.4 ENVIRONMENTAL ACCIDENT**

There is a prediction for management and dealing with incidents of "fire in vegetation", as well as environmental accident, i.e. leakage of substances etc.