



ΥΠΟΥΡΓΕΙΟ ΑΓΡΟΤΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΤΡΟΦΙΜΩΝ
ΕΛΛΗΝΙΚΟΣ ΓΕΩΡΓΙΚΟΣ ΟΡΓΑΝΙΣΜΟΣ “ΔΗΜΗΤΡΑ”



EIONET Workshop on Soil 10-12 /12/2012

Management of Contaminated Sites in Greece

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The Data Source

- YPEKA: Ministry of ENVIRONMENT, ENERGY and CLIMATE CHANGE
 - Dr Christine Stouraiti (Dept., of Waste Management)
 - Mr J. Machairas (Dept., of Waste Management)
 - Mr Dimitris Meimaris (EIONET FOCAL Point)
- 6th Progress Report for the Municipal disposal sites, (No: 4799/5.11.2012).

CONTAMINATED SITES in Greece

- I. UNCONTROLLED MUNICIPAL WASTES DISPOSAL:
 - (XADA) Dumpsites (are consider by law as : CONTAMINATED SITES)
- II. Controlled Municipal Waste DISPOSAL Sites
 - (XYTA) Landfills for controlled urban waste disposal
- III. XYTY : Disposal Sites for Residues
 - MEA : Units of Waste Managements
 - SMA: Station of Transportation of Wastes
 - etc
- IV. INDUSTRIAL and DANGEROUS WASTES:

I. Inactive, Active & Remediated Dumpsites

	Oct 2010	Jan 2011	Mar 2011	Jun 2011	Mar 2012	Oct 2012
Active Dumpsites	249	138	99	82	63	78
Remediated Dumpsites	2343	2357	2358	2358	2641	2641
Inactive Dumpsites under remediation	444	541	579	596	332	318
Total Dumpsites that need remediation	693	679	678	678	395	396

Rate of Inactivation of Dumpsites=68,67

Rate of Remediated Dumpsites=42,85

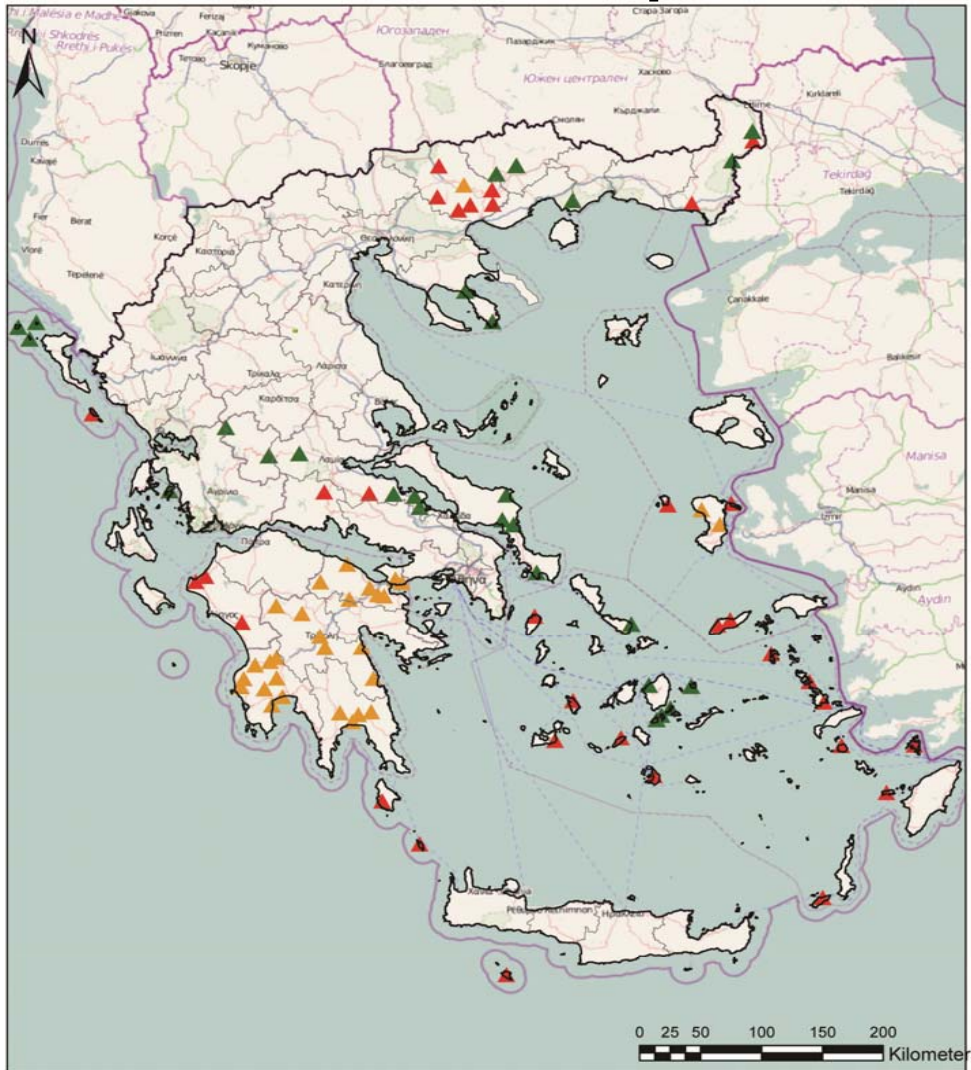
Regional Distribution of Dumpsites

REGION	Prefectures	Active Dumpsites	Active Dumpsites remediated under ΕΠΠΕΡΑΑ-ΠΕΠ funding	Inactive Dumpsites	TOTAL
East Macedonia-Thrace	22	7	7	6	13
Central Macedonia	38	8	7	63	71
West Macedonia	12	0	0	0	0
Epirus	18	0	0	39	39
Thessaly	25	0	0	0	0
Ionian Islands	7	4	3	10	14
West Greece	19	5	2	14	19
Central Greece	25	8	7	62	70
Attiki-Athens	66	3	0	15	18
Peloponisos	26	26	26	56	82
North Aegeon	9	6	4	5	11
South Aegeon	34	10	4	41	51
Crete	24	1	0	7	8
TOTAL	325	78	60	318	396

Table 2. Active Dumpsites in Greece

Region	31/3/2011	30/6/2011	31/3/2012	30/9/2012
East Macedonia & Thrace	6	6	2	7
Central Macedonia	22	7	7	8
Ionian Islands	7	7	1	4
West Greece	4	3	3	5
Central Greece	10	10	2	8
Attica	2	2	2	3
Peloponnese	25	25	27	26
North Aegean	5	5	6	6
South Aegean	17	16	12	10
Crete	1	1	1	1
TOTAL	99	82	63	78

Inactive, Active and under-remediation Dumpsites



ΧΑΔΑ

Κατάσταση (Μάρτιος 2012)

- ▲ ΑΝΕΝΕΡΓΟΣ
- ▲ ΕΝΕΡΓΟΣ
- ▲ ΕΝΕΡΓΟΣ-ΕΝΤΑΓΜΕΝΟΣ ΣΕ ΧΡΗΜΑΤΟΔΟΤΗΣΗ

Mapped by **OKXE**

MANAGEMENT OF CONTAMINATED SITES

- DUMPSITES(XADA) Potentially contaminated Sites
 - Total Number Recorded: 396
 - According to the Circular 109974/3106/22.10.24 all the Greek dumpsites were evaluated for their impact to the environment and were classified to Categories A, B, C & D as following:
 - A: means Risk >90,
 - B: means Risk 70-89,
 - C: means Risk between 30-69,
 - D: means Risk 0-29 (no remediation needed)
 - Closed up to now: 318 (remediation plans ready)
 - Active : 78
 - 60 remediation plans ready and the expenses foreseen
 - 18 under study

Dumpsites under remediation

Region	Total Dumpsites	ESPA	Other Sources
East Macedonia & Thrace	19	17	2
Central Macedonia	70	38	32
Epirus	14	11	3
Thessalia	57	57	0
West Greece	24	17	7
Ionian Islands	11	7	4
Central Greece	20	18	2
Attica	11	8	3
Peloponnese	68	68	0
North Aegean	25	23	2
South Aegean	15	10	5
Crete	1	1	0
TOTAL	335	275	60

Remediation/Foreseen Cost for DUMPSITES (XADA)

Number of Dumpsites	Description	Budget (M Euro)
396	ESTIMATED FUNDS FROM THE NATIONAL STRATEGIC PLAN (2009...)	224 (ESPA)
275 Inactive	REMIEDIATED OR UNDER REMEDIATION (PEP/EPPEPAA (tender 2009-2010)	55,81
60	2010 Completed Remediation(3 rd KPS)	6
338	Selected –planned for remediation 9os/2012	139
8	Plans rejected	
13	Under Evaluation	21,5
23	unmature	8,1

II. CONTROLLED MUNICIPAL WASTES

- LANDFILLS FOR NON HAZARDOUS MUNICIPAL SOLID WASTES (XYTA):
- Number : 79
- There are not considered as potentially contaminated sites

III. Planned Remediation Activities for XYTY, XYTA, MEA, SMA etc

Region	Budget (Meuro)	Public Funding
East Meceadonia-Thraki	203,29	88,29
Cental Macedonia	285,37	91,97
West Macedonia	138,61	22,61
Hepirus	62,34	44,34
Thessalia	99,5	99,5
Ionian Islands	51,05	43,05
West Hellas	281,52	91,52
Sterea Hellas	102,76	77,76
Attiki	542,3	271,3
Poeloponisos	141,5	72,5
N. Aegaion	20,7	20,7
S. Aegaion	79,2	76,2
Crete	135,9	135,9
TOTAL	2144,04	1135,64

IV. INDUSTRIAL and DANGEROUS WASTES

- YPEKA asked : The Technical University of Crete, Lab., of Management of Toxic and Dangerous Wastes (Team Leded by Prof. J. Gidarakos) to develop a tool – methodology for: THE INVESTIGATION , STUDY EVALUATION AND REMEDIATION OF CONTAMINATED SITES FROM INDUSTRIAL AND TOXIC WASTES.
- Document prepared 2009 (900 pages)

IV. INDUSTRIAL and DANGEROUS WASTES

- International Tender (18/11/2011) for a Consortium to: the recording, first evaluation of contaminated sites from Industrial-Hazardous Wastes in the District of Attikis, and the Prefecture of Thessalonikis, Boiotias, Euboiias, Kozanis, Achaias, Hrakleiou, Magnisias, Kabalas and Chalikidikis, where industrial activities are operating (800,000 EURO)
- Unfortunately the tender has been blocked due to judicial dispute of the Tender Participants.

- THANK YOU FOR YOUR ATTENTION