



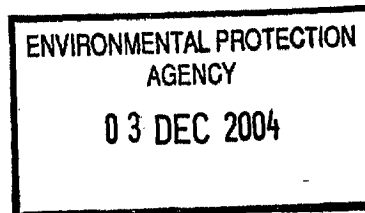
Sub ③

**AN TAISCE – THE NATIONAL TRUST FOR IRELAND**

**Our Ref: 20041130-09-EPA47.2**

30<sup>th</sup> November 2004

The Secretary  
Environmental Protection Agency  
P O Box 3000  
Johnstown Castle Estate  
Co Wexford



Dear Sir

**REF: Revised Waste Application License by Nephin Trading Ltd, Kerdiffstown, Co Kildare, for remediation of waste disposal. Reference 47/2**

We refer to revised proposal currently before the EPA.

We wish to draw to the attention of the EPA information which has arisen in conjunction with a planning application for an adjoining development, reference number 02/1115, for a mixed use and business park development at Palmerstown Demesne.

This proposal was dependent on ground water abstraction as the area is not connected into a public water supply.

The borehole readings, in particular borehole number 6, raised serious contamination concerns particularly in relation to number 6.

We recommend that the EPA examines this data to determine if there is a potential link with leachate from the Nephin Trading site at Kerdiffstown.

The matter is of particular seriousness because there is currently a planning application for a private day hospital which is seeking to rely on local groundwater abstraction immediately to the east of the Kerdiffstown site.

Yours sincerely

  
**IAN LUMLEY**  
Heritage Officer

*Encl: copy of relevant data from EIS and planning application 02/1115*

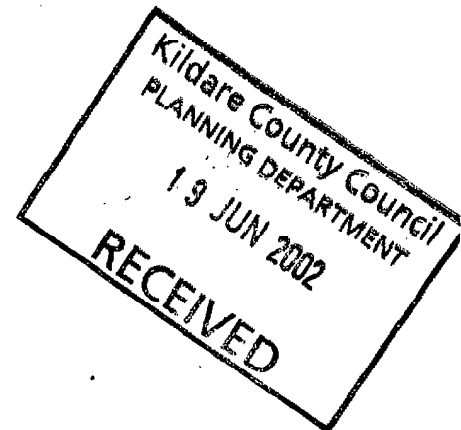
**THE PROPOSED CONSTRUCTION OF A  
MIXED USE DEVELOPMENT  
COMPRISING OF, GOLF COURSE,  
HOTEL, BUSINESS PARK AND  
RESIDENTIAL DWELLINGS AT  
PALMERSTOWN, NAAS, CO. KILDARE.**

- An Environmental Impact Statement -

**VOLUME II**

**Date:**

June 2002



A Submission to Kildare County Council by Bord na Móna Environmental Consultancy  
Services on behalf of Bridford Development Ltd.

## 5.0 ANALYTICAL RESULTS

### 5.1 Introduction

A representative groundwater sample from each of the newly installed groundwater monitoring wells (BH1 – BH6) were submitted for laboratory analysis for the range of parameters indicated in Section 3.2 to establish baseline groundwater conditions underlying the site.

### 5.1 Analytical Tables

The groundwater analytical results are presented as follows:

*Table 5.2a:* Results of Chemical Analysis of Groundwater Samples.

*Table 5.2b:* Results of Anions and Cations Analysis of Groundwater Samples.

*Table 5.2c:* Groundwater Metallic Analytical Results.

*Table 5.2d:* Groundwater Analytical Results of US EPA Volatile Organic Compounds.

<b>TABLE 5.2a: Results of Chemical Analysis of Groundwater Samples</b>			
<i>Location</i>	<i>pH (pH units)</i>	<i>COD (mg/l)</i>	<i>Conductivity @ 25°C (µS/cm)</i>
BH1	7.6	<10	710
BH2	7.5	<10	700
BH3	7.8	<10	1202
BH4	7.9	<10	635
BH5	7.4	<10	1215
BH6	7.6	<10	1372

TABLE 5.2b: Groundwater Anions and Cations Analytical Results

<i>Parameter</i>	<i>BH1</i>	<i>BH2</i>	<i>BH3</i>	<i>BH4</i>	<i>BH5</i>	<i>BH6</i>	<i>MAC*</i>
Ammonia - N (mg/l)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3
Nitrate- NO <sub>3</sub> -N (mg/l)	1.8	0.2	0.1	0.6	4.4	88.7	113
Fluoride - F (mg/l)	0.1	0.1	0.3	0.1	0.1	<0.1	1.5
Chloride - Cl (mg/l)	16.1	9.6	115.8	11.9	63.7	49.7	250
Orthophosphate - PO <sub>4</sub> -P (mg/l)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	-
Sulphate - SO <sub>4</sub> (mg/l)	23	34.1	83	30	84.1	72.1	250

Note: \*MAC Potable Water Maximum Admissible Concentration under EC Directive (No. 80/778/EC).

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