



10th July 2016



Re: AIE Request Acknowledgement [IE_AIE_004]

Dear 

I refer to your request dated 7th June 2016, under which you have made under the EC (Access to Information on the Environment) Regulations 2007 to 2014.

Request:

1. All internal correspondence including emails relating to or referring to the ENVA plant in Portlaoise since 2014.
2. All records sent externally or received from third parties since 2014 relating in any way to the ENVA plant.
3. All memos, analysis, reports, notes of phone calls, or minutes of meetings (internal or with third parties) relating to the ENVA plant, or the plant operations since 2014.

Response

- Please find copy of documents attached.

In the event that you are not happy with this decision you can make an appeal in relation to this matter, you can do so by writing to the FOI Unit, Corporate Communications, Iarnród Éireann Irish Rail, Connolly Station, Amiens St, Dublin 1 or by e-mail to foi@irishrail.ie. You should make your appeal within 4 weeks (20 working days) from the date of this notification, where a day is defined as a working day excluding the weekend and public holidays, however, the making of a late appeal may be permitted in appropriate circumstances. The appeal will involve a complete reconsideration of the matter by a more senior member of the staff of this body.

Should you have any questions or concerns regarding the above, please contact the FOI Officer on 01, 7034293.

Yours sincerely,

Ms. Sue Stanley

Freedom of Information / Data Protection Officer,

Corporate Communications

Iarnród Éireann Irish Rail,

Connolly Station,

Amiens Street,

Dublin 1

AI

[Redacted]

Subject: FW: Air quality contractor.
Attachments: IE Portlaoise Sleeper Depot Occ Air Survey May 14.pdf

From: [Redacted]
Sent: 09 June 2014 16:16
To: [Redacted]
Subject: Sleeper Depot Report for review

Hello [Redacted]
Please note the attached report for your review and comment.
You will note that on the day of the survey, although oil type odours were noticeable, the air quality survey that I conducted indicates that the risk to worker health was negligible.
Regards,

[Redacted] MSc. MIOA. Dip Environmental & Planning Law.

Byrne Environmental Consulting Ltd
Red Bog
Skryne Road
Dunshaughlin
Co. Meath

Mobile [Redacted]
Phone [Redacted]
Fax [Redacted]
Email [Redacted]
Web www.byrneenvironmental.ie

Environmental Monitoring - Assessment - Management

Acoustics - Air Quality - Environmental Impact Assessment - Waste Management Specialists

Byrne Environmental CONSULTING LTD

ENVIRONMENTAL MONITORING, ASSESSMENT & MANAGEMENT
*Acoustics, Air Quality, Environmental Impact Assessment
& Waste Management Specialists*

Red Bog, Skyme Road, Dunshaughlin, Co. Meath

Tel/Fax: [REDACTED]

Email: [REDACTED]

Web: www.byrneenvironmental.ie

OCCUPATIONAL AIR QUALITY MONITORING REPORT

for

[REDACTED]
***Iarnrod Eireann
Connolly Station
Dublin 1***

Conducted at

**Sleeper Depot
Portlaoise
Co. Laois**

Project Ref. RFQ 2300

6th June 2014

[REDACTED]
[REDACTED] MSc, MIOA, Dip. Environmental & Planning Law

Byrne Environmental
CONSULTING LTD

1.0 INTRODUCTION AND SCOPE

This report presents and assesses the results of a workplace occupational air monitoring survey which was conducted on behalf of Iarnrod Eireann at the Portlaoise Sleeper Depot on 15th May 2014.

The survey was conducted to determine the exposure of Iarnrod Eireann employees from air emissions generated from the adjoining ENVA Waste facility with regard to *Health & Safety Authority's 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)* in accordance with Section 60 of the *Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005)*

The results presented in this report relate to air samples obtained within the subject workplace during periods when the ENVA facility was operational and when the prevailing winds were blowing from the ENVA facility towards the external yard area of the Sleeper Depot. The measured potential exposure to hydrocarbon vapours and dusts have been normalized to an 8 hour working day in accordance with the Regulations.

Air samples were taken at two locations within the sleeper depot yard area at points in proximity to the boundary with the ENVA facility and at locations where Iarnrod Eireann employees may be present during the course of a working day. The sampling points were selected based on observable hydrocarbon type odours by Ian Byrne of Byrne Environmental Consulting Ltd and

2.0 OCCUPATIONAL AIR QUALITY MONITORING PROTOCOL

Employee exposure to hydrocarbon vapours and dusts during a typical working shift were monitored and assessed in accordance with the *Health & Safety Authority's 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)* in accordance with Section 60 of the *Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005)*.

Occupational air quality monitoring was conducted to assess the external concentrations of the following compounds within the Sleeper Depot.

Volatile Organic Compounds

Inhalable Dust

Respirable Dust

Active air sampling surveys were conducted at two locations (A1 – A2) on 15th May 2014 during which air samples were obtained by means of a portable SKC Universal Deluxe Air Sampling Pump, activated SKC adsorbant charcoal tubes, pre-weighed IOM filters and an airflow calibration rotometer.

Air Samples were analysed for Volatile Organic Compounds (typical emissions from a waste oil facility such as ENVA) using Gas Chromatography-coupled-Mass Spectroscopy (GCMS) and for dust concentrations by gravimetry by an independent laboratory (SAL Ltd UK. Report Ref. 397-181). The results of the analysis are presented in Table 1 below.

Byrne Environmental
CONSULTANTS

Iarnrod Eireann - Portlaoise Sleeper Depot
Occupational Air Assessment May 2014

The 8 hour reference period relates to the procedure whereby the occupational exposures in any 24 hour period are treated as equivalent to a single uniform exposure for 8 hours (the 8 hour time-weighted average (TWA) exposure). The TWA may be expressed mathematically by:

$$(C_1 T_1 + C_2 T_2 + \dots + C_n T_n) / 8$$

where $C_1 \dots C_n$ are the occupational exposures in mg/m^3 and $T_1 \dots T_n$ are the associated exposure times in hours in any 24 hour period.

3.0 RESULTS OF AIR QUALITY ASSESSMENT

The results of the occupational air quality monitoring survey are presented below in Table 1 and indicate that employee exposures to volatile organic compounds were below the relevant Occupational Exposure Limit Values as specified in Schedule 1 of the *Chemical Agents Code of Practice 2010*.

The results of the laboratory analysis show that concentrations of Volatile Organic Compounds were below the Limit of Detection (LOD) of $1\mu\text{g}$ which indicate that exposure to any OEL limit value was not exceeded.

The results of the laboratory analysis show that concentrations of inhalable and respirable dusts (non-specific) were below OEL.

Table 1 Air Quality Monitoring Results 15th May 2014

Measurement Location	Compound	Measured Value (mg/m^3) / (8hr ref period)	OEL Limit Value (mg/m^3) / (8 hr ref period)
Area A	Total VOC's Top 10 VOC screen	<0.0028	10^1
Area B	Total VOC's Top 10 VOC screen	<0.0028	10^1
Area C	Inhalable Dust	2.2	10
	Respirable Dust	0.19	4

1 A conservative OEL limit value is assumed for the purposes of this survey as no VOC compounds were detected

4.0 CONCLUSIONS

The results of the occupational air quality surveys indicate that on the day of the survey, although oil type odours were observed, the measured concentration of organic compounds in the air were below the laboratory limit of detection for VOC's and therefore it is unlikely that an OEL for any VOC would have been exceeded.

Measured concentrations of total inhalable and respirable dust were below the OEL for non-specific dusts.

Typically, odours releases will disperse very quickly in an open environment and the concentration of individual compounds will normally be diluted to very low levels.

5.0 RECOMMENDATIONS

With regard to the variability of events during which odours emanating from the adjoining ENVA facility may be noticeable within the Iarnrod Eireann facility, it is recommended that a site specific air quality monitoring system could be employed within the yard area to sample air quality during specific events.

Subject: FW: Letter of complaint to ENVA- Draft
Attachments: Copy of Air Quality Log Sheet -Sleeper Depot .xlsx; Letter of complaint to Enva Draft 1.docx

From: [REDACTED]
Sent: 25 June 2014 13:20
To: [REDACTED]
Cc: [REDACTED]
Subject: Letter of complaint to ENVA- Draft

[REDACTED] called me today and asked that I look into engaging daily monitoring of odours at the sleeper depot, however this is not an option as the only sampling method in use at the minute is a bag grab sample which is sent to a lab where odour "experts" measure the potency of the odour, so would be extremely costly to monitor on a daily basis. Ian Byrne the air quality consultant we used to monitor the air for dust and VOC's says that we must now keep an air quality log, which I sent to Laura last month and she is making this available to members of staff in the sleeper depot. The safety resource should also record all formal complaints in relation to health issues and this is will be used as evidence over time.

Right now its about putting constant pressure on ENVA to implement effective mitigation measures, I drafted a fairly strongly worded letter to them in respect of dust and odour issues on behalf of yourself. Can you take a look at it and let me know if it is appropriate.

Daily recording of dust and odour issues by the depot staff is crucial in building up a case that ENVA or the EPA cannot ignore. Please feel free to edit the text in the letter as you feel appropriate, I have cc'd Éamonn on the letter let me know if you want anyone else cc'd .

I do struggle to give this issue appropriate time as I cover the entire CCE Department and I apologise for that, but you have a full time safety resource in Portlaoise who can manage the logging of complaints and odour issues, I have spoken to them about this and there isn't an issue for them to do this, when the new safety exec starts I will sit down with him and go through the history of this issue.

Regards,
[REDACTED]

CCE Environmental Exec., Iarnród Éireann Infrastructure;
[REDACTED] www.irishrail.ie



Before printing, think about the environment

B1.2

Stáisiún Uí Chonghallo, Baile Átha Cliath 1
Connolly Station, Dublin 1
01 703 nnnn 01 703 nnnn info@irishrail.ie www.irishrail.ie

Director Envva Waste Facility,
Clonmanin Industrial Estate Portlaoise,
Co. Laois.

27th of June 2014

Registered Post

Re: Migration of dust and nuisance odours onto IE property, Old Knockmay Rd Portlaoise.

To

As you have been made aware of previously, over the past number of years there have been ongoing EHS issues which have occurred at the Iarnród Éireann Sleeper Depot Plant on the Old Knockmay Rd as a result of migration of dust and nuisance odours emanating from the ENVA waste facility located at the Clonmanin Industrial Estate Portlaoise.

In the past number of months, several documented formal complaints have been received by our IE Safety Executive from members of staff at the Sleeper Depot regarding dust and nuisance odours. In response to this issue, IE management at the sleeper depot site are now maintaining an air quality log sheet in order to record instances of dust and odour issues.

In previous meetings with your organisation, IE have been assured by ENVA that the parameters for emissions which they are licensed to emit have not exceeded their environmental or OELV limits, however this does not negate the fact that our staff are experiencing a reduced quality in their workplace as a result of nuisance odours which are migrating from the ENVA plant onto our property. IE also have track maintenance machines which are stationed adjacent to the roofed soil remediation area of the Enva waste plant. These machines are subjected to dust settling on the machines from ENVA's soil remediation area. This issue has the potential to result in increased machine maintenance costs which IE are not willing to incur as a result of ENVA's avoidance to implement effective mitigation measures in respect of dust migration onto our site at this particular area.

IE have a duty of care towards providing a safe and comfortable working environment for its employees and we are compelled to write formally to you now and ask that ENVA invest in appropriate and effective long term mitigation measures at their waste facility in Portlaoise in order to prevent dust migration and nuisance odours effecting the immediate area of the facility as outlined in section 7.2 of the relevant EPA Waste License Register No 184-1.


"7.2 The licensee shall ensure that dust, noise and odours do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution or contravene any national statutory protection granted in respect of protected species or cause significant interference with amenities or the environment beyond the site boundary."


I would ask that management at ENVA Portlaoise respond within 21 days of receipt of this letter with intended proposals for appropriate and effective mitigation measures to be implemented on your site to prevent migration of odours and dust onto our property.

B1.3

If ENVA fail to respond to our concerns, we will be obliged to report this issue to the Office of Environmental Enforcement and the Health and Safety Authority. In the meantime we will continue to record dust and odour issues in our internal air quality log and officially record formal health and safety complaints within our safety management system as evidence of the ongoing EHS issues caused by ENVA's activities on IE property at Old Knockmay Rd Portlaoise.

Yours Sincerely


Production Manager,
Iarnród Éireann Infrastructure,
New Works Building,
C.I.E Works,
Inchicore,
Dublin 8.

CC,  Chief Civil Engineer, Iarnród Éireann Infrastructure

[REDACTED]

From: [REDACTED]
Sent: 09 May 2016 17:53
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Sleeper Depot Report for review

Hi [REDACTED]

A [REDACTED], MD of ENVA rang today requesting a meeting to review works recently carried out at their plant in Portlaoise. I presume that this meeting is to get feedback on whether improvements have been made to air quality etc. as a result of these works and possibly this meeting may form part of their submission to the EPA.

I have agreed a date of 19th May at 2pm in Inchicore. Are you available to attend this meeting to assist with environmental/EPA issues.

Regards
[REDACTED]

From: [REDACTED]
Sent: 25 February 2016 09:37
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Sleeper Depot Report for review

[REDACTED]
The content is spot on and you have outlined your submission very clearly. I would send the letter out as soon as possible and I will record in the external communications register.

Regards
[REDACTED]

Sent from my Windows Phone

From: [REDACTED]
Sent: 24/02/2016 14:10
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Sleeper Depot Report for review

Hi [REDACTED]

Please see attached proposed response to the EPA .

Can you look over and if ok I will sign and you might issue the letter in the appropriate way to the EPA.

Regards
[REDACTED]

From: [REDACTED]
Sent: 23 February 2016 13:13
To: [REDACTED]

C.I.I

Cc: [REDACTED]

Subject: RE: Sleeper Depot Report for review

Hi [REDACTED]

I read the letter and ENVA insist many times within the letter that they do not exceed any statutory limits regarding ambient air quality. To be honest that is not what any of our complaints to ENVA were in relation to, our letters outlined that nuisance dust and odours were our main concern, so in that respect it does not influence the content of our submission. In terms of a screen I don't believe they ever committed to this, they agreed to close up the soil remediation shed. I have't been in Portlaoise in a while so I don't know if they have started work on this project. A screen erected laterally between the 2 properties would not be as effective as closing up the entire remediation shed itself as this was the main source of nuisance dust on site especially during Summer months. If you want I could suggest in the letter that IE would like a screen erected between the 2 properties as a secondary mitigation measure? Let me know and I will finalise the letter today and get it sent in straight away.

Thanks,
[REDACTED]

From: [REDACTED]

Sent: 22 February 2016 13:26

To: [REDACTED]

Cc: [REDACTED]

Subject: FW: Sleeper Depot Report for review

Hi [REDACTED]

I attach a letter recently received from ENVA. They state that this letter is a follow up to their letter of October 2014.

Can you review this letter and see if it has any influence on your reply to the EPA's licence review. I note they don't mention any proposed screening between IE's depot and ENVA which I recall they had suggested they would erect.

Paul, can you assist Emer with any relevant information to help draft a reply.

Regards
[REDACTED]

From: [REDACTED]

Sent: 12 February 2016 15:01

To: [REDACTED]

Cc: [REDACTED]

Subject: RE: Sleeper Depot Report for review

[REDACTED]
I met with [REDACTED] yesterday in relation to the issue below and I have provided a response which you can edit freely or make suggestions, I am basically reiterating what we have outlined in our initial letters of complaint to Enva which focus on nuisance odours and dust, but as you say the licence review will take into consideration all aspects of ENVA's activities so if there is anything you would like to highlight in particular let me know.

As you say, the letter does not outline a time frame for submission, I tried to contact Noeleen Keevey to no avail so I happen to have a college classmate working in the EPA and she let me know that the review is on hold but at the same time we need to respond with a submission as soon as possible. To be honest, to send a letter out requesting a submission and not provide a timeframe for responses is not good enough coming from a government authority.

[REDACTED] let me know that you are on leave currently but if we could get a response out by next Wednesday we should be fine. I will update the letter with any additional information you would like to provide.

Regards,
[REDACTED]

From: [REDACTED]
Sent: 01 February 2016 17:50
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Sleeper Depot Report for review

Hi [REDACTED]

Please see attached letter from EPA received today.

Their letter is in relation to their decision to review Enva Ireland Ltd licence, this was prompted by Enva's proposal to install new air emissions treatment equipment.

The EPA goes on to state that the review will not be limited to this new proposal and an environmental assessment of all aspects of the licensee's activities at the facility will be carried out by the EPA.

IE are now being asked to make submissions to the EPA regarding this licence review.

Can we arrange a meeting to discuss IE's approach in relation to this submission. There is no mention of a deadline for this submission in the letter, perhaps it can be found on the EPA's web site?

Regards
[REDACTED]

From: [REDACTED]
Sent: 15 January 2016 09:54
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Sleeper Depot Report for review

Hi [REDACTED]

Please see attached report. I have to go to Cork today but we can discuss next week. I'll give you a call.

Regards,
[REDACTED]

From: [REDACTED]
Sent: 09 June 2014 16:16
To: [REDACTED]
Subject: Sleeper Depot Report for review

Hello [REDACTED]

Please note the attached report for your review and comment.

You will note that on the day of the survey, although oil type odours were noticeable, the air quality survey that I conducted indicates that the risk to worker health was negligible.

Regards,

[REDACTED] MSc. MIOA. Dip Environmental & Planning Law.

Byrne Environmental Consulting Ltd
Red Bog

C-14

Skryne Road
Dunshaughlin
Co. Meath

Mobile [REDACTED]

Phone [REDACTED]

Fax [REDACTED]

Email [REDACTED]

Web www.byrneenvironmental.ie

Environmental Monitoring - Assessment - Management

Acoustics - Air Quality - Environmental Impact Assessment - Waste Management Specialists

01

[REDACTED]

Subject: Enva meeting

From: [REDACTED]
Sent: 19 May 2016 11:23

To: [REDACTED]
Subject: Enva meeting

[REDACTED]

I was on my way up to inchicore and the engine malfunction light came on along with a few others on the dash. I am in birdhill now and going to bring it to GPT in limerick to get the van sorted. I doubt I will be in attendance at the meeting this afternoon. But if there are any actions assigned to me let me know.
Apologies

[REDACTED]

Sent from my Windows Phone

E151

Subject: FW: Sleeper Depot Report for review

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E12

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6103

IE are now being asked to make submissions to the EPA regarding this licence review.

Can we arrange a meeting to discuss IE's approach in relation to this submission. There is no mention of a deadline for this submission in the letter, perhaps it can be found on the EPA's web site?

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Fax 01-8024001
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Web www.byrneenvironmental.ie

Environmental Monitoring - Assessment - Management

Acoustics - Air Quality - Environmental Impact Assessment - Waste Management Specialists

From: [REDACTED]
Sent: 01 February 2016 17:50
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Sleeper Depot Report for review
Attachments: EPA Letter Portlaoise Depot Jan 2016.pdf

Hi [REDACTED]

Please see attached letter from EPA received today.

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Byrne Environmental Consulting Ltd
 Red Bog

Skryne Road
Dunshaughlin
Co. Meath

Mobile [REDACTED]
Phone [REDACTED]
Fax [REDACTED]
Email [REDACTED]
Web www.byrneenvironmental.ie

Environmental Monitoring - Assessment - Management

Acoustics - Air Quality - Environmental Impact Assessment - Waste Management Specialists

Production Manager
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Dublin 8



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Johnstown Castle Estate
County Wexford, Ireland
Y35 W821

Ceannteachtrú, Bóca Post 3000
Easáit Chaisleán Bhaile Sheáin
Contae Loch Garman, Éire
Y35 W821

T: [REDACTED]
F: [REDACTED]
E: [REDACTED]
W: [REDACTED]
L: [REDACTED]

27/01/2016

Reg. No. W0184-02

Dear [REDACTED]

This letter is to inform you that the Environmental Protection Agency (EPA) has initiated a review of the Industrial Emissions licence (register number W0184-01) held by Enva Ireland Limited in relation to a facility located at Clonminam Industrial Estate, Portlaoise, County Laois.

The EPA's decision to review this licence has been prompted by Enva Ireland Limited's proposal to install new air emissions treatment equipment at the facility to abate potential odourous emissions from its oil treatment process and will facilitate full public participation in the EPA's decision-making process on the matter. The licence review will not be limited to this new proposal and an environmental assessment of all aspects of the licensee's activities at the facility in Clonminam Industrial Estate, Portlaoise will be carried out by the EPA. Detailed information has been sought from the licensee regarding the new proposal and other activities being carried out at the facility.

In accordance with normal EPA procedures for the review of licences, newspaper notices have been or will be published in national and local newspapers and a statutory list of governmental and non-governmental organisations have been informed of the licence review. Anyone, including the applicant, will be entitled to make a submission to the EPA on the licence review and all submissions will be considered by the EPA when making a decision whether or not to grant a revised licence.

All correspondence between the EPA and the licensee, including the technical information that has been sought by the EPA, will be published to the EPA website throughout the process. All submissions from the licensee and third parties will be published to the EPA website www.epa.ie as they are received.

You can make submissions via the Agency's website or by post or email. You may subscribe to updates on this licence review (register number W0184-02) through RSS Feeds to receive notifications regarding this application directly to your email account.

A proposed determination will issue in due course and the licensee and third parties will be entitled to make objections to the EPA's proposed determination.

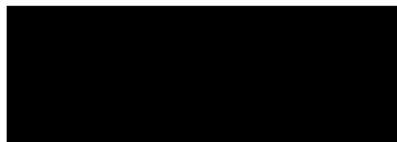


F1-4.

Detail on the Industrial Emissions licensing process is available on the EPA website <http://www.epa.ie/licensing/industrialemissionslicensing/>.

Please note that a new register number W0184-02 has been assigned for the licence review and all correspondence regarding the licence review should quote this new register number.

Yours sincerely,



Environmental Licensing Programme
Office of Environmental Sustainability

[REDACTED]

Subject: FW: Air quality contractor,
Attachments: IE Portlaoise Sleeper Depot Occ Air Survey May 14.pdf

From: [REDACTED]
Sent: 09 June 2014 16:16
To: [REDACTED]
Subject: Sleeper Depot Report for review

Hello [REDACTED]
Please note the attached report for your review and comment.
You will note that on the day of the survey, although oil type odours were noticeable, the air quality survey that I conducted indicates that the risk to worker health was negligible.
Regards,

[REDACTED] MSc. MIOA. Dip Environmental & Planning Law.

Byrne Environmental Consulting Ltd
Red Bog
Skryne Road
Dunshaughlin
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Environmental Monitoring - Assessment - Management

Acoustics - Air Quality - Environmental Impact Assessment - Waste Management Specialists

[REDACTED]

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OCCUPATIONAL AIR QUALITY MONITORING REPORT

for

[REDACTED]
***Iarnrod Éireann
Connolly Station
Dublin 1***

Conducted at

**Sleeper Depot
Portlaoise
Co. Laois**

Project Ref. RFQ 2300

6th June 2014

[REDACTED]

[REDACTED] MSc, MIOA, Dip. Environmental & Planning Law

Byrne Environmental
CONSULTING LTD

1.0 INTRODUCTION AND SCOPE

This report presents and assesses the results of a workplace occupational air monitoring survey which was conducted on behalf of Iarnrod Eireann at the Portlaoise Sleeper Depot on 15th May 2014.

The survey was conducted to determine the exposure of Iarnrod Eireann employees from air emissions generated from the adjoining ENVA Waste facility with regard to *Health & Safety Authority's 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)* in accordance with Section 60 of the *Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005)*

The results presented in this report relate to air samples obtained within the subject workplace during periods when the ENVA facility was operational and when the prevailing winds were blowing from the ENVA facility towards the external yard area of the Sleeper Depot. The measured potential exposure to hydrocarbon vapours and dusts have been normalized to an 8 hour working day in accordance with the Regulations.

Air samples were taken at two locations within the sleeper depot yard area at points in proximity to the boundary with the ENVA facility and at locations where Iarnrod Eireann employees may be present during the course of a working day. The sampling points were selected based on observable hydrocarbon type odours by Ian Byrne of Byrne Environmental Consulting Ltd and

2.0 OCCUPATIONAL AIR QUALITY MONITORING PROTOCOL

Employee exposure to hydrocarbon vapours and dusts during a typical working shift were monitored and assessed in accordance with the *Health & Safety Authority's 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)* in accordance with Section 60 of the *Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005)*.

Occupational air quality monitoring was conducted to assess the external concentrations of the following compounds within the Sleeper Depot.

Volatile Organic Compounds

Inhalable Dust

Respirable Dust

Active air sampling surveys were conducted at two locations (A1 – A2) on 15th May 2014 during which air samples were obtained by means of a portable SKC Universal Deluxe Air Sampling Pump, activated SKC adsorbant charcoal tubes, pre-weighed IOM filters and an airflow calibration rotometer.

Air Samples were analysed for Volatile Organic Compounds (typical emissions from a waste oil facility such as ENVA) using Gas Chromatography-coupled-Mass Spectroscopy (GCMS) and for dust concentrations by gravimetry by an independent laboratory (SAL Ltd UK. Report Ref. 397-181). The results of the analysis are presented in Table 1 below.

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Iarnrod Eireann - Portlaoise Sleeper Depot
Occupational Air Assessment May 2014

The 8 hour reference period relates to the procedure whereby the occupational exposures in any 24 hour period are treated as equivalent to a single uniform exposure for 8 hours (the 8 hour time-weighted average (TWA) exposure). The TWA may be expressed mathematically by:

$$(C_1 T_1 + C_2 T_2 + \dots + C_n T_n) / 8$$

where $C_1 \dots C_n$ are the occupational exposures in mg/m^3 and $T_1 \dots T_n$ are the associated exposure times in hours in any 24 hour period.

3.0 RESULTS OF AIR QUALITY ASSESSMENT

The results of the occupational air quality monitoring survey are presented below in Table 1 and indicate that employee exposures to volatile organic compounds were below the relevant Occupational Exposure Limit Values as specified in Schedule 1 of the *Chemical Agents Code of Practice 2010*.

The results of the laboratory analysis show that concentrations of Volatile Organic Compounds were below the Limit of Detection (LOD) of $1\mu\text{g}$ which indicate that exposure to any OEL limit value was not exceeded.

The results of the laboratory analysis show that concentrations of inhalable and respirable dusts (non-specific) were below OEL.

Table 1 Air Quality Monitoring Results 15th May 2014

Measurement Location	Compound	Measured Value (mg/m^3) / (8hr ref period)	OEL Limit Value (mg/m^3) / (8 hr ref period)
Area A	Total VOC's Top 10 VOC screen	<0.0028	10^1
Area B	Total VOC's Top 10 VOC screen	<0.0028	10^1
Area C	Inhalable Dust	2.2	10
	Respirable Dust	0.19	4

1 A conservative OEL limit value is assumed for the purposes of this survey as no VOC compounds were detected

4.0 CONCLUSIONS

The results of the occupational air quality surveys indicate that on the day of the survey, although oil type odours were observed, the measured concentration of organic compounds in the air were below the laboratory limit of detection for VOC's and therefore it is unlikely that an OEL for any VOC would have been exceeded.

Measured concentrations of total inhalable and respirable dust were below the OEL for non-specific dusts.

Typically, odours releases will disperse very quickly in an open environment and the concentration of individual compounds will normally be diluted to very low levels.

5.0 RECOMMENDATIONS

With regard to the variability of events during which odours emanating from the adjoining ENVA facility may be noticeable within the Iarnrod Eireann facility, it is recommended that a site specific air quality monitoring system could be employed within the yard area to sample air quality during specific events.