
From: [REDACTED]
Sent: 06 July 2016 15:10
To: Jim Fanning <jim_fanning@hsa.ie>
Cc: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Kilsaran Remediation Works - status email 1

Hi Jim

Apologies for the delay in this. [REDACTED] will send a mail with the completion reports for site we have finished on to date.

This week we are actively working on:

Glendale – finished site yesterday

Seagreen – ongoing (will need another two weeks)

Sea Road – on site but not actively working yet (hopefully Friday)

Bromley – work commenced yesterday. [REDACTED] will forward the air reassurance reports from [REDACTED] Note this work will take until Friday.

Jim – Re seaRoad (Net Projects site) we have an area of building stockpiles c. 130 tonnes (estimate). We have to remove it even though we do not know if there is any Kilsaran material in it. Do you think we could look at using trucks as in Bromley (following the same methodology)? Otherwise this could extend the works by quite a bit. Gravity could update their methodology if you think this is possible. Note its agreeable to [REDACTED] and you are welcome to come and see the material.

Kind Regards

[REDACTED]

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IDA Business and Technology Park
Clonshaugh
Dublin 17

e: [REDACTED]@awnconsulting.com

w: www.awnconsulting.com

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From: Jim Fanning [mailto:jim_fanning@hsa.ie]
Sent: 06 July 2016 12:57
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: Kilsaran Remediation Works

Dear [REDACTED]

I understand that works has commenced at the Bromley/Kilpedder site in recent days. As agreed, can you please forward

your current schedule of remediation works and ensure that we continue to be informed of the actual start and finish dates for all individual sites.

Kind regards

Jim Fanning

James Fanning | Inspector, Occupational Hygiene
Health and Safety Authority
The Metropolitan Building, James Joyce Street, Dublin 1
Tel: 01 6147056 | Fax: 01 6147020
Email: jim_fanning@hsa.ie | Web: www.hsa.ie

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AWN Consulting Limited registered in Ireland No. 319812

04/07/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE : Section 55 Monitoring Data, Ballinclare Quarry, 24 June 2016

Dear Mr. Boland,

As required within the section 55 notice, on behalf of Kilsaran International, I am providing an update on the air monitoring at Ballinclare Quarry.

1. Overview of air monitoring programme to date

In accordance with the previously outlined monitoring programme from the letter dated 20 June 2016, air sampling was undertaken again on the 24 June 2016 by AWN Consulting at the six identified perimeter locations (SA1 – SA6) around the quarry (see *Figure 1 – Monitoring locations*).

The methodology for the monitoring of asbestos followed *The Health and Safety Executive (HSE) Guidance Asbestos: The Analysts Guide for Sampling, Analysis and Clearance Procedures*, which recommends that sampling and analysis of materials for the presence of asbestos is undertaken to comply with CAWR 2002 ACOPs L27 and L28 when sampling airborne fibres.

The HSE procedure recommends using a known flow rate (1-16 L/min) through a filter for a set period of time until 480 litres of air have been sampled. To achieve the quantification limit (0.01 f/ml), each measurement must result from a total of at least 480 litres in volume. The fibres can then be counted by the accredited IOM laboratory: The calculated total number of fibres collected on the filter is divided by the volume of air sampled to determine the fibre concentration in terms of fibre per millilitre of air (f/ml).



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Carrigaline, Co. Cork.
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F: + 353 21 483 4606

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Registered in Ireland No. 319812
Directors: F Callaghan, C Dilworth,
T Donnelly, T Hayes, D Kelly, E Porter

Table 1 provides a comprehensive overview of the sampling results from 24 June 2016 and includes an assessment of the fibre concentrations in relation to the HSA Binding Occupational Exposure Limit. As with the results from 17 June 2016, all samples were again in compliance with the HSA COP 2011 value of 0.1f/ml.

2. Dust sampling status

In accordance with the programme outlined in the letter dated 20 June 2016, dust monitoring was undertaken continuously from 00:00 on Friday 17th June with the first set of samples collected on Friday 24th June. In the previous letter dated 20 June 2016 it was reported that the results were expected within 5 working days. Please note that was an error and should have read 10 working days. As such, as the first set of results are expected on Monday 11th July. The second set of samples were collected on 01 July 2016 with results due Monday 18th July.

Results from the 24 June 2016 samples will therefore be presented in the next Section 55 report.

Yours sincerely,



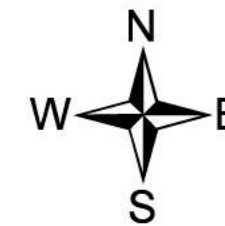
AWN Consulting

cc. Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council

*encl. Table 1 – Air Quality Monitoring Programme Results, Balliclare Quarry – 24 June 2016
Figure 1 - Monitoring Locations*

Table 1: Air Quality Monitoring Programme Results, Balliclare Quarry – 24 June 2016

Sample no.	Date	Consultant	Location Description	Total Fibre Concentration (f/ml)	Total Asbestos Fibre Concentration (f/ml)	Analysed by:	HSA Limit Value	Compliance With HSA Binding Occupational Exposure Limit
S1	24/06/2016	SMcM	Section 55 Monitoring Location SA1	0.0008	0.0001	IOM	0.1 f/ml	Yes
S2	24/06/2016	SMcM	Section 55 Monitoring Location SA2	ND<0.0002	ND<0.0002	IOM	0.1 f/ml	Yes
S3	24/06/2016	SMcM	Section 55 Monitoring Location SA3	0.0003	0.0002	IOM	0.1 f/ml	Yes
S4	24/06/2016	SMcM	Section 55 Monitoring Location SA4	0.0006	<0.0006	IOM	0.1 f/ml	Yes
S5	24/06/2016	SMcM	Section 55 Monitoring Location SA5	<0.0001	ND<0.0001	IOM	0.1 f/ml	Yes
S6	24/06/2016	SMcM	Section 55 Monitoring Location SA6	<0.0004	<0.0004	IOM	0.1 f/ml	Yes



Legend

Sampling locations/ Type:

■ SA1 - SA6
- Asbestos Sampling Point

■ SD1
- Dust Sampling Point



Do not scale; Indicative Only (NTS)

0 50 100 Metres

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Source: Kilsaran, flown 28/05/2016

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CLIENT:	PROJECT:	DRAWN:	CHECKED:	APPROVED:	DATE:
Kilsaran Ballinclare, Co. Wicklow	Proposed Section 55 Air Monitoring	P.G.	T.H.	T.H.	05/07/2016
DRAWING TITLE:	Project Ref: TH/16/9020SR01	Figure 1		1	A3
Monitoring Locations		REVISION DESCRIPTION		SHEET	REV
		Drawing 05-07-2016		1	0

From: [REDACTED]
To: [Jim Fanning](mailto:jim.fanning@hsa.ie)
Cc: [REDACTED]
Subject: RE: Kilsaran Remediation Works - status email 1
Date: 06 July 2016 17:14:37
Attachments: [Letter re section 55 - 27 June 2016.pdf](#)

Last week's Section 55 monitoring letter.

[REDACTED]

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From: [REDACTED]
Sent: 06 July 2016 16:55
To: Jim Fanning <jim_fanning@hsa.ie>
Cc: [REDACTED] <[\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)>
Subject: RE: Kilsaran Remediation Works - status email 1

Hi Jim

Here is a table showing where we are at with the sign off reports.

Site	Report Status
Harvieston Service Station	Complete
[REDACTED] Redcross	Complete
[REDACTED] Redcross	Complete
Rosanna Estate, Ashford	Complete
Stepaside Golf Centre	Complete
Cullen Excavations, New Road	Site works complete. Report pending
Glendale	Site works complete. Report pending

I will send the completed reports to you in a series of emails to come. Pending reports will be sent on completion. I will also send you the Section 55 reporting for Ballinclare Quarry

I have attached the reassurance report for Bromley undertaken yesterday (5th July) as requested.

Kind regards,

[REDACTED]

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Clonshaugh
Dublin 17

e: [REDACTED] [awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)
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From: [REDACTED]
Sent: 06 July 2016 15:10
To: Jim Fanning <jim_fanning@hsa.ie>
Cc: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Kilsaran Remediation Works - status email 1

Hi Jim

Apologies for the delay in this. [REDACTED] will send a mail with the completion reports for site we have finished on to date.

This week we are actively working on:

Glendale – finished site yesterday

Seagreen – ongoing (will need another two weeks)

Sea Road – on site but not actively working yet (hopefully Friday)

Bromley – work commenced yesterday. [REDACTED] will forward the air reassurance reports from [REDACTED] Note this work will take until Friday.

Jim – Re seaRoad (Net Projects site) we have an area of building stockpiles c. 130 tonnes (estimate). We have to remove it even though we do not know if there is any Kilsaran material in it. Do you think we could look at using trucks as in Bromley (following the same methodology)? Otherwise this could extend the works by quite a bit. Gravity could update their methodology if you think this is possible. Note its agreeable to the site owner and you are welcome to come and see the material.

Kind Regards

[REDACTED]

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From: Jim Fanning [mailto:jim_fanning@hsa.ie]
Sent: 06 July 2016 12:57
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: Kilsaran Remediation Works

Dear [REDACTED]

I understand that works has commenced at the Bromley/Kilpedder site in recent days. As agreed, can you please forward

your current schedule of remediation works and ensure that we continue to be informed of the actual start and finish dates for all individual sites.

Kind regards

Jim Fanning

James Fanning | Inspector, Occupational Hygiene
Health and Safety Authority
The Metropolitan Building, James Joyce Street, Dublin 1
Tel: 01 6147056 | Fax: 01 6147020
Email: jim_fanning@hsa.ie | Web: www.hsa.ie

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27/06/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE : Section 55 Notice for Ballinclare Quarry and Measures required

Dear Mr. Boland,

As required within the section 55 notice, on behalf of Kilsaran International, I am providing an update on the air monitoring at Ballinclare Quarry.

1. Overview of air monitoring programme to date

Air sampling was undertaken on the 17th of June 2016 by AWN Consulting at six different locations (SA1 – SA6) around the quarry (see *Figure 1 – Monitoring locations*) in accordance with the proposed methodology outlined in the letter dated 20 June 2016.

The methodology for the monitoring of asbestos followed *The Health and Safety Executive (HSE) Guidance Asbestos: The Analysts Guide for Sampling, Analysis and Clearance Procedures*, which recommends that sampling and analysis of materials for the presence of asbestos is undertaken to comply with CAWR 2002 ACOPs L27 and L28 when sampling airborne fibres.

The HSE procedure recommends using a known flow rate (1-16 L/min) through a filter for a set period of time until 480 litres of air have been sampled. To achieve the quantification limit (0.01 f/ml), each measurement must result from a total of at least 480 litres in volume. The fibres can then be counted by the accredited IOM laboratory: The calculated total number of fibres collected on the filter is divided by the volume of air sampled to determine the fibre concentration in terms of fibre per millilitre of air (f/ml).



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Directors: F Callaghan, C Dilworth,
T Donnelly, T Hayes, D Kelly, E Porter

Table 1 provides a comprehensive overview of the sampling results and includes an assessment of the fibre concentrations in relation to the HSA Binding Occupational Exposure Limit. All samples were in compliance with the HSA COP 2011 value of 0.1f/ml.

2. Proposed air monitoring programme

In accordance with the programme outlined in the letter dated 20 June 2016, dust monitoring is currently being undertaken with initial results due to be received Friday 1st July for the first week of samples. Results will be presented in the next Section 55 report.

In relation to asbestos sampling, these samples are being taken on a weekly basis. The next set of sample results will also be recorded in the next Section 55 report.

Yours sincerely,



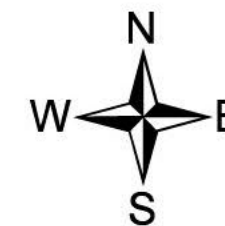
AWN Consulting

cc. *Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council*

encl. *Table 1 – Air Quality Monitoring Programme Results, Balliclare Quarry – 17 June 2016
Figure 1 - Monitoring Locations*

Table 1: Air Quality Monitoring Programme Results, Balliclare Quarry – 17 June 2016

Sample no.	Date	Consultant	Location Description	Total Fibre Concentration (f/ml)	Total Asbestos Fibre Concentration (f/ml)	Analysed by:	HSA Limit Value	Compliance With HSA Binding Occupational Exposure Limit
SA1	17/06/2016	SMcM	A3	0.0004	0.0001	IOM	0.1 f/ml	Yes
SA2	17/06/2016	SMcM	3	<0.0002	<0.0002	IOM	0.1 f/ml	Yes
SA3	17/06/2016	SMcM	B3	<0.0001	ND<0.0001	IOM	0.1 f/ml	Yes
SA4	17/06/2016	SMcM	B1	0.0002	<0.0001	IOM	0.1 f/ml	Yes
SA5	17/06/2016	SMcM	2A	0.0001	ND<0.0001	IOM	0.1 f/ml	Yes
SA6	17/06/2016	SMcM	A2	<0.0001	ND<0.0001	IOM	0.1 f/ml	Yes



Legend

Sampling locations/ Type:

■ SA1 - SA6
- Asbestos Sampling Point

■ SD1
- Dust Sampling Point



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0 50 100 Metres

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CLIENT:	PROJECT:	DRAWN:	CHECKED:	APPROVED:	DATE:
Kilsaran Ballinclare, Co. Wicklow	Proposed Section 55 Air Monitoring	P.G.	T.H.	T.H.	14/06/2016
DRAWING TITLE:	Project Ref: TH/16/9020SR01	Figure 1		1	A3
Monitoring Locations	REVISION DESCRIPTION	SHEET	REV		
	Drawing 14-06-2016	1	0		

From: [REDACTED]
To: [Jim Fanning](mailto:Jim.Fanning)
Cc: [REDACTED]
Subject: RE: Reassurance sample results
Date: 21 June 2016 16:27:53
Attachments: [5 Figure 1 Kilsaran Ballinclare SECTION 55 AIR Monitoring Locations 14_06_2016.pdf](#)

Email 3 of 3

From: [REDACTED]
Sent: 21 June 2016 16:06
To: 'Jim Fanning' <jim_fanning@hsa.ie>
Cc: [REDACTED] <[\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)>
Subject: FW: Reassurance sample results

Good afternoon Jim

Please find the link and sign in details for our reassurance reports from G&L Consulting.

I have also attached the letter we sent to Wicklow County Council yesterday with an update on the sampling at the Quarry. This is quite large so I will send as 2 emails.

Kind regards,

[REDACTED]

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Clonshaugh
Dublin 17

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From: [REDACTED] [[mailto:\[REDACTED\]@gnl.org.uk](mailto:[REDACTED]@gnl.org.uk)]
Sent: 21 June 2016 11:44
To: [REDACTED] <[\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)>
Subject: RE: Reassurance sample results

I think there was something wrong with the link but I have also updated your password.

Go to the link <https://reportsonline.ni.gnl.org.uk>

Try again using your email [REDACTED] awnconsulting.com and the password [REDACTED]

The certificates of completion are also on the portal.

Let me know if it works this time.

Thanks

[REDACTED]

[REDACTED]

G&L Consultancy Ltd
5 Hazelbank Road, Lawrencetown
Craigavon, Co. Armagh BT63 6DS

Tel: [REDACTED]

Fax: [REDACTED]

Email: [REDACTED] [gnl.org.uk](mailto:[REDACTED]@gnl.org.uk)

Web: <http://www.gnl.org.uk>

TEAMS Portal Web Address - <http://gnl.teams-software.co.uk>

From: [REDACTED] [[mailto:\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)]

Sent: 21 June 2016 11:24

To: [REDACTED]

Subject: RE: Reassurance sample results

Hi Helen

I can't seem to log in as my email address or the password isn't recognised.

As an aside, can you tell me if the Certificates of Re-occupation for Glendale and the two Redcross sites have been included on the website and/or can you email me copies?

Kind regards,

[REDACTED]

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The Tecpro Building
IDA Business and Technology Park
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Dublin 17

e: [REDACTED] [awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)

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From: [redacted] [[mailto:\[redacted\]@gnl.org.uk](mailto:[redacted]@gnl.org.uk)]
Sent: 21 June 2016 10:15
To: [redacted] <[\[redacted\]@awnconsulting.com](mailto:[redacted]@awnconsulting.com)>
Subject: RE: Reassurance sample results

Hi [redacted]

I have set you up with portal access to our TEAMS system so you can access any certificates we have done for you.

The portal web address is <http://gnl.teams-software.co.uk>

Log on using your email address and the password has been set up as wicklow – (I can change this for you if you wish)

Once logged on, click on the air monitoring tab and you will see a list of the certificates we have completed for you – to generate a certificate, click on the PDF icon on the left hand side. These can then be saved to your computer if you want.

You can also view your appointments on the diary tab and quotes, invoices etc.

If you have any queries or you want any other users set up please don't hesitate to contact me.

[redacted]

[redacted]

G&L Consultancy Ltd
5 Hazelbank Road, Lawrencetown
Craigavon, Co. Armagh BT63 6DS

Tel: [redacted]

Fax: [redacted]

Email: [redacted]@gnl.org.uk

Web: <http://www.gnl.org.uk>

TEAMS Portal Web Address - <http://gnl.teams-software.co.uk>

From: [redacted] [[mailto:\[redacted\]@awnconsulting.com](mailto:[redacted]@awnconsulting.com)]
Sent: 20 June 2016 17:23
To: [redacted]
Cc: [redacted]
Subject: Reassurance sample results

Hi Helen

I was wondering if you could send me all the results you have so far for the reassurance monitoring? I have some from Glendale as well as one from Redcross and one from Seagreen. However, I'm missing all the other results.

Could you also copy me in to all emails for my reference.

Kind regards,

[redacted]

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Clonshaugh
Dublin 17

e: [redacted]@awnconsulting.com
w: www.awnconsulting.com

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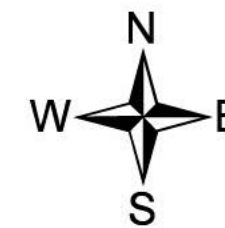
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Legend

Sampling locations/ Type:

■ SA1 - SA6
- Asbestos Sampling Point

■ SD1
- Dust Sampling Point



Do not scale; Indicative Only (NTS)

0 50 100 Metres

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Source: Kilsaran, flown 28/05/2016

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AWN Consulting Ltd
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Clonshaugh Business & Technology Park
Dublin 17,
Tel: + 353 1 847 4220
Fax: + 353 1 847 4257

CLIENT:	PROJECT:	DRAWN:	CHECKED:	APPROVED:	DATE:
Kilsaran Ballinclare, Co. Wicklow	Proposed Section 55 Air Monitoring	P.G.	T.H.	T.H.	14/06/2016
DRAWING TITLE:	Project Ref: TH/16/9020SR01	Figure 1		1	A3
Monitoring Locations	REVISION DESCRIPTION	SHEET	REV		
	Drawing 14-06-2016	1	0		

From: [REDACTED]
To: Jim.Fanning
Cc: [REDACTED]
Subject: FW: Reassurance sample results
Date: 21 June 2016 16:07:19
Attachments: [1 Letter re section 55.pdf](#)
[2 Figures for reporting 15 06 2016.pdf](#)
[3 1 Figure 1 Kilsaran Ballinclare AIR Monitoring Locations 16 06 2016 BP Report.pdf](#)

Good afternoon Jim

Please find the link and sign in details for our reassurance reports from G&L Consulting.

I have also attached the letter we sent to Wicklow County Council yesterday with an update on the sampling at the Quarry. This is quite large so I will send as 2 emails.

Kind regards,

[REDACTED]

AWN Consulting
The Tecpro Building
IDA Business and Technology Park
Clonshaugh
Dublin 17

e: [REDACTED] [awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)
w: www.awnconsulting.com

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AWN Consulting Limited registered in Ireland No. 319812

From: [REDACTED] [mailto:[REDACTED]@gnl.org.uk]
Sent: 21 June 2016 11:44
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Reassurance sample results

I think there was something wrong with the link but I have also updated your password.

Go to the link <https://reportsonline.ni.gnl.org.uk>

Try again using your email [REDACTED] [awnconsulting.com](mailto:[REDACTED]@awnconsulting.com) and the password [REDACTED]
[REDACTED]

The certificates of completion are also on the portal.

Let me know if it works this time.

Thanks

[REDACTED]

[REDACTED]

G&L Consultancy Ltd
5 Hazelbank Road, Lawrencetown
Craigavon, Co. Armagh BT63 6DS

Tel: [REDACTED]
Fax: [REDACTED]

Email: [REDACTED]@gnl.org.uk
Web: <http://www.gnl.org.uk>

TEAMS Portal Web Address - <http://gnl.teams-software.co.uk>

From: [REDACTED] [[mailto:\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)]
Sent: 21 June 2016 11:24
To: [REDACTED]
Subject: RE: Reassurance sample results

Hi Helen

I can't seem to log in as my email address or the password isn't recognised.

As an aside, can you tell me if the Certificates of Re-occupation for Glendale and the two Redcross sites have been included on the website and/or can you email me copies?

Kind regards,

[REDACTED]

AWN Consulting
The Tecpro Building
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Clonshaugh
Dublin 17

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w: www.awnconsulting.com

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AWN Consulting Limited registered in Ireland No. 319812

From: [REDACTED] [mailto:[REDACTED]@gnl.org.uk]
Sent: 21 June 2016 10:15
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Reassurance sample results

Hi [REDACTED]

I have set you up with portal access to our TEAMS system so you can access any certificates we have done for you.

The portal web address is <http://gnl.teams-software.co.uk>

Log on using your email address and the password has been set up as [REDACTED] – (I can change this for you if you wish)

Once logged on, click on the air monitoring tab and you will see a list of the certificates we have completed for you – to generate a certificate, click on the PDF icon on the left hand side. These can then be saved to your computer if you want.

You can also view your appointments on the diary tab and quotes, invoices etc.

If you have any queries or you want any other users set up please don't hesitate to contact me.

[REDACTED]

[REDACTED]

G&L Consultancy Ltd
5 Hazelbank Road, Lawrencetown
Craigavon, Co. Armagh BT63 6DS

Tel: [REDACTED]

Fax: [REDACTED]

Email: [REDACTED]@gnl.org.uk

Web: <http://www.gnl.org.uk>

TEAMS Portal Web Address - <http://gnl.teams-software.co.uk>

From: [REDACTED] [mailto:[REDACTED]@awnconsulting.com]
Sent: 20 June 2016 17:23
To: [REDACTED]
Cc: [REDACTED]
Subject: Reassurance sample results

Hi Helen

I was wondering if you could send me all the results you have so far for the reassurance monitoring? I have some from Glendale as well as one from Redcross and one from Seagreen. However, I'm missing all the other results.

Could you also copy me in to all emails for my reference.

Kind regards,

[Redacted]

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The Tecpro Building
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Dublin 17

e: [Redacted] [awnconsulting.com](mailto:[Redacted]@awnconsulting.com)
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20/06/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE : Section 55 Notice for Ballinclare Quarry and Measures required

Dear Mr. Boland,

As required within the section 55 notice, on behalf of Kilsaran International, I am providing a description of the air monitoring to date and the planned air monitoring programme.

I. Overview of air monitoring programme to date

Long test and short test air sampling and vegetation sampling has been undertaken between 25th of May and 15th of June 2016 across the site and around the perimeter. These samples were chosen to be representative of the temporary waste containment area and receptors at the quarry perimeter.

Figure 1 - Air Sampling Locations (May/June 2016) provides the locations for all short test sampling undertaken by About Safety Limited. *Figure 1a - Air Sampling Locations (June 2016)* provides the locations for the long test sampling undertaken by AWN consulting as well as the vegetation sampling undertaken on the 2nd of June 2016.

Long test sampling was undertaken by AWN consultants between the 2nd and 6th of June 2016 with results analysed by IOM Laboratories in Edinburgh. Each sample was carried out over a 240-minute period using an SKC Universal Sampling Pump at 2 L/min onto a gridded membrane filter, providing a total volume of air sampled of 480 L. Short test sampling was undertaken by About Safety Limited using varying flow rates and pump durations in accordance with Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 and the associated EU directives. The analytical method applied to all results is based on Asbestos International Association, Recommended Technical Method No. 2 (RTM2, AIA 1984) and International Standards Organisation (2002), International Standard 14966.

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Directors: F Callaghan, C Dilworth,
T Donnelly, T Hayes, D Kelly, E Porter

Table 1 provides a comprehensive overview of the sampling results and includes an assessment of the fibre concentrations in relation to the HSA Binding Occupational Exposure Limit. All samples were in compliance with the HSA COP 2011 value of 0.1f/ml. Representative vegetation sampling was also undertaken by AWN and analysed by ChemTest showing no asbestos to be present.

II. Proposed air monitoring programme

As required by the Section 55, weekly dust and asbestos sampling will be undertaken and a report submitted to WCC. It should also be noted that Kilsaran has ensured that reassurance monitoring is being undertaken for all works being undertaken within the unloading area or blast area. This ensures that adequate mitigation is in place to minimise release of fibres within the quarry during works.

Please find below a description of the monitoring methodology at the quarry for dust and asbestos over coming weeks.

Methodology

Dust

It is proposed to monitor for PM₁₀ at one location (SD1) using a R&P Partisol®-Plus Sequential Air Sampler (Model 2025). The sampler is a manual air sampling platform which has been designed to meet US EPA Reference Designation (RFPS-1298-127). Approximately 24 m³ of air will be sampled daily through a particle size separator, which is contained within the PM₁₀ sampling head. The impactor removes particles with a diameter >10 µg and the remaining particles are collected on pre-weighed 47mm diameter filters. The Partisol® sampler is programmed to automatically replace each sampled filter by a new pre-weighed filter at midnight. This ensures that each filter represents a sampling period of exactly 24 hours. Gravimetric determination carried out pre- and post-sampling by a UKAS accredited laboratory using a calibrated scientific balance.

Asbestos

Monitoring of asbestos will be carried out at six different locations (SA1 – SA6) around the quarry (see *Figure 1 – Monitoring locations*). The methodology for the monitoring of asbestos will follow *The Health and Safety Executive (HSE) Guidance Asbestos: The Analysts Guide for Sampling, Analysis and Clearance Procedures*, which recommend that sampling and analysis of materials for the presence of asbestos is undertaken to comply with CAWR 2002 ACOPs L27 and L28 when sampling airborne fibres.

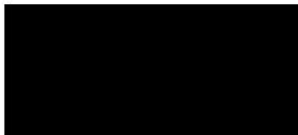
The HSE procedure recommends using a known flow rate (1-16 L/min) through a filter for a set period of time until 480 litres of air have been sampled. To achieve the quantification limit (0.01 f/ml), each measurement must result from a total of at least 480 litres in volume. The fibres can then be counted by the accredited IOM laboratory: The calculated total number of fibres collected on the filter is divided by the volume of air sampled to determine the fibre concentration in terms of fibre per millilitre of air (f/ml).

Frequency of Monitoring and Results

Dust monitoring will occur continuously from 00:00 on Friday 17th June. Samples will be collected weekly. The first set of samples will be collected on Friday 24th June with results expected approximately 5 working days later. Results expected to be received Friday 1st July for the first week of samples.

In relation to asbestos sampling, these samples will be taken on a weekly basis. The first samples will be taken on 17th June with results expected on the 24th or 27th June.

Yours sincerely,



AWN Consulting

cc. *Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council*

encl. *Table 1 – Air Quality Monitoring Programme Results, Balliclare Quarry – May/June 2016*
Figure 1 – Air Sampling Locations (May/June 2016)
Figure 1a – Air Sampling Locations (June 2016)
Figure 1 - Monitoring Locations

Table 1: Air Quality Monitoring Programme Results, Balliclare Quarry – May/June 2016

Date	Consultant	Location Description	Total Fibre Concentration (f/ml)	Total Asbestos Fibre Concentration (f/ml)	Indicative results	Analysed by:	HSA Limit Value	Compliance With HSA Binding Occupational Exposure Limit	Notes
02/06/2016	SMcM	Opposite Ballinclare house	0.002	0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	330m SE of site entrance on road	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	500 m NE of site entrance, receptor house	0.002	0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	NW of site boundary on road	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Quarry Entrance	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Coakley House, Back Wall of House	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Gate to Wicklow CoCo Depot	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
04/06/2016	SMcM	Quarry Gate	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
04/06/2016	SMcM	Opposite Ballinclare House Entrance	0.005	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
06/06/2016	AC	Quarry Entrance	ND <0.003	ND <0.003	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
06/06/2016	AC	Gate to Wicklow CoCo Depot	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	

02/06/2016	SMcM	Opposite Ballinclare house	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Opposite Ballinclare house	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	330m SE of site entrance on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Grass Sample across road from quarry entrance and leaf sample at quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Grass Sample across road from quarry entrance and leaf sample at quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	approx. 100m west of quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	approx. 100m west of quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	NW of site boundary on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	NW of site boundary on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
25/05/2016		Weigh bridge area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
25/05/2016		North perimeter boundary	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
25/05/2016		Outside crushing area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

25/05/2016		Centre of Quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Conveyor from crusher	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Inside crusher shed	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Mobile crusher in quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Road NE corner of quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 1	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 2	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 3	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 4	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 5	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 6	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 7	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Weigh bridge office	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

01/06/2016		Over blast area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Over blast area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Receptor at control room	0.06	Not measured	High loadings of silica dusts with asbestiform fibres evident	About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Blast area at mobile crusher	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Behind old office building	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		NW corner of site	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Entrance gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary left of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary left of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Site Office	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

02/06/2016		WC	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Centre of yard	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Under asphalt	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary at container	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		Water Bowser	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		Site office at weigh bridge	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

From: [REDACTED] <[REDACTED]@awnconsulting.com>

Sent: 19 December 2016 16:29

To: MBoland@wicklowcoco.ie

Cc: MGeaney@wicklowcoco.ie; [REDACTED] <[REDACTED]@kilsaran.ie>; [REDACTED] <[REDACTED]@kilsaran.ie>; Jim Fanning <jim_fanning@hsa.ie>; [REDACTED] <[REDACTED]@awnconsulting.com>; [REDACTED] <[REDACTED]@awnconsulting.com>

Subject: RE: Section 55 update

Dear Mr Boland,

Please find attached the results from our latest dust monitoring at Ballinclare Quarry, Co. Wicklow.

Kind regards,

[REDACTED]

AWN Consulting
The Tecpro Building
IDA Business and
Technology Park
Clonsaugh
Dublin 17

e: [REDACTED]@awnconsulting.com

w: www.awnconsulting.com

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AWN Consulting Limited registered in Ireland No. 319812



*Because homelessness is everywhere this Christmas,
AWN Consulting Ltd is proud to support
the Simon House of Cards appeal*



20/06/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE : Section 55 Notice for Ballinclare Quarry and Measures required

Dear Mr. Boland,

As required within the section 55 notice, on behalf of Kilsaran International, I am providing a description of the air monitoring to date and the planned air monitoring programme.

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Directors: F Callaghan, C Dilworth,
T Donnelly, T Hayes, D Kelly, E Porter

Table 1 provides a comprehensive overview of the sampling results and includes an assessment of the fibre concentrations in relation to the HSA Binding Occupational Exposure Limit. All samples were in compliance with the HSA COP 2011 value of 0.1f/ml. Representative vegetation sampling was also undertaken by AWN and analysed by ChemTest showing no asbestos to be present.

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As required by the Section 55, weekly dust and asbestos sampling will be undertaken and a report submitted to WCC. It should also be noted that Kilsaran has ensured that reassurance monitoring is being undertaken for all works being undertaken within the unloading area or blast area. This ensures that adequate mitigation is in place to minimise release of fibres within the quarry during works.

Please find below a description of the monitoring methodology at the quarry for dust and asbestos over coming weeks.

Methodology

Dust

It is proposed to monitor for PM₁₀ at one location (SD1) using a R&P Partisol®-Plus Sequential Air Sampler (Model 2025). The sampler is a manual air sampling platform which has been designed to meet US EPA Reference Designation (RFPS-1298-127). Approximately 24 m³ of air will be sampled daily through a particle size separator, which is contained within the PM₁₀ sampling head. The impactor removes particles with a diameter >10 µg and the remaining particles are collected on pre-weighed 47mm diameter filters. The Partisol® sampler is programmed to automatically replace each sampled filter by a new pre-weighed filter at midnight. This ensures that each filter represents a sampling period of exactly 24 hours. Gravimetric determination carried out pre- and post-sampling by a UKAS accredited laboratory using a calibrated scientific balance.

Asbestos

Monitoring of asbestos will be carried out at six different locations (SA1 – SA6) around the quarry (see *Figure 1 – Monitoring locations*). The methodology for the monitoring of asbestos will follow *The Health and Safety Executive (HSE) Guidance Asbestos: The Analysts Guide for Sampling, Analysis and Clearance Procedures*, which recommend that sampling and analysis of materials for the presence of asbestos is undertaken to comply with CAWR 2002 ACOPs L27 and L28 when sampling airborne fibres.

The HSE procedure recommends using a known flow rate (1-16 L/min) through a filter for a set period of time until 480 litres of air have been sampled. To achieve the quantification limit (0.01 f/ml), each measurement must result from a total of at least 480 litres in volume. The fibres can then be counted by the accredited IOM laboratory: The calculated total number of fibres collected on the filter is divided by the volume of air sampled to determine the fibre concentration in terms of fibre per millilitre of air (f/ml).

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Dust monitoring will occur continuously from 00:00 on Friday 17th June. Samples will be collected weekly. The first set of samples will be collected on Friday 24th June with results expected approximately 5 working days later. Results expected to be received Friday 1st July for the first week of samples.

In relation to asbestos sampling, these samples will be taken on a weekly basis. The first samples will be taken on 17th June with results expected on the 24th or 27th June.

Yours sincerely,



 AWN Consulting

cc. *Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council*

encl. *Table 1 – Air Quality Monitoring Programme Results, Balliclare Quarry – May/June 2016*
Figure 1 – Air Sampling Locations (May/June 2016)
Figure 1a – Air Sampling Locations (June 2016)
Figure 1 - Monitoring Locations

Table 1: Air Quality Monitoring Programme Results, Balliclare Quarry – May/June 2016

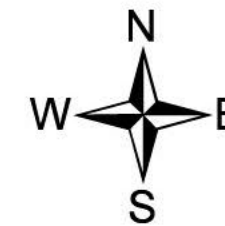
Date	Consultant	Location Description	Total Fibre Concentration (f/ml)	Total Asbestos Fibre Concentration (f/ml)	Indicative results	Analysed by:	HSA Limit Value	Compliance With HSA Binding Occupational Exposure Limit	Notes
02/06/2016	SMcM	Opposite Ballinclare house	0.002	0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	330m SE of site entrance on road	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	500 m NE of site entrance, receptor house	0.002	0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
02/06/2016	SMcM	NW of site boundary on road	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Quarry Entrance	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Coakley House, Back Wall of House	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
03/06/2016	AC	Gate to Wicklow CoCo Depot	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
04/06/2016	SMcM	Quarry Gate	<0.002	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
04/06/2016	SMcM	Opposite Ballinclare House Entrance	0.005	<0.002	Small number of amphibole asbestos fibres detected	IOM	0.1 f/ml	Yes	
06/06/2016	AC	Quarry Entrance	ND <0.003	ND <0.003	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	
06/06/2016	AC	Gate to Wicklow CoCo Depot	ND <0.002	ND <0.002	No asbestos fibres were detected	IOM	0.1 f/ml	Yes	

02/06/2016	SMcM	Opposite Ballinclare house	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Opposite Ballinclare house	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	330m SE of site entrance on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Grass Sample across road from quarry entrance and leaf sample at quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	Grass Sample across road from quarry entrance and leaf sample at quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	approx. 100m west of quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	approx. 100m west of quarry entrance	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	NW of site boundary on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
02/06/2016	SMcM	NW of site boundary on road	N/A	N/A	No asbestos fibres were detected	ChemTest	0.1 f/ml	Yes	*Vegetation sample
25/05/2016		Weigh bridge area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
25/05/2016		North perimeter boundary	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
25/05/2016		Outside crushing area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

25/05/2016		Centre of Quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Conveyor from crusher	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Inside crusher shed	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Mobile crusher in quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
26/05/2016		Road NE corner of quarry	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 1	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 2	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 3	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 4	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 5	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 6	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
31/05/2016		Area 7	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Weigh bridge office	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

01/06/2016		Over blast area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Over blast area	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Receptor at control room	0.06	Not measured	High loadings of silica dusts with asbestiform fibres evident	About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Blast area at mobile crusher	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		Behind old office building	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
01/06/2016		NW corner of site	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Entrance gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary right of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary left of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary left of gate	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Site Office	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	

02/06/2016		WC	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Centre of yard	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Under asphalt	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
02/06/2016		Boundary at container	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		Water Bowser	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		see map	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	
15/06/2016		Site office at weigh bridge	<0.01	Not measured		About Safety Limited	0.1 f/ml	Yes	



Legend

Sampling locations/ Type:

Air sampling - Short test

E25 - Sampled/ Tested on 25/05/2016
 B26 - Sampled/ Tested on 26/05/2016

AREA1 - Sampled/ Tested on 31/05/2016

R01 - Sampled/ Tested on 01/06/2016
 F02 - Sampled/ Tested on 02/06/2016
 A15 - Sampled/ Tested on 15/06/2016

Refer Figure 1a for:
 Air sampling
 02/06/2016
 03/06/2016
 04/06/2016
 06/06/2016

Note: Refer to Report Table for additional detail on all samples indicated on Figure 1 and Figure 1a

Do not scale; Indicative Only (NTS)
 0 50 100 Metres

AWN licence no. EN 0007513
 Note: Drawing is for illustrative purposes only
 Source: Kilsaran, flown 28/05/2016



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CLIENT: Kilsaran Ballinclare, Co. Wicklow	PROJECT: Air Monitoring Programme	DRAWN: P.G.	CHECKED: T.H.	APPROVED: T.H.	DATE: 16/06/2016
DRAWING TITLE: Air Sampling Locations (May/June 2016)	Project Ref: TH/16/9020SR01	Figure 1		1	A3
REVISION DESCRIPTION Drawing 16-06-2016			SHEET 1	REV 0	NTS

From: [REDACTED]
To: MBoland@wicklowcoco.ie
Cc: [REDACTED]; MGeaney@wicklowcoco.ie; [Jim Fanning](#); [REDACTED]; [REDACTED]
Subject: RE: Section 55 update
Date: 15 November 2016 13:54:21
Attachments: [Letter re section 55_11 Nov 2016.pdf](#)

Dear Mr Boland,

Please find attached our latest Section 55 monitoring update and proposal for the ongoing monitoring.

Kind regards,

[REDACTED]

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The Tecpro Building
IDA Business and Technology Park
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16/12/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE: Section 55 Monitoring Data, Ballinclare Quarry – Dust Monitoring Update

Dear Mr. Boland,

I am writing to provide you with the recent results from the Section 55 dust monitoring undertaken at Ballinclare Quarry, Co. Wicklow.

As outlined in the letter dated 3rd October 2016, monitoring for PM₁₀ was undertaken at a new location (SD2) (see *Figure 1a – Dust monitoring locations*) within the process yard. The purpose of this was to provide a more representative sample of dust movement at the site, in particular within the now closed processing area. The results from the most recent samples collected are presented in Table 1.

As with the previous sampling, monitoring was undertaken using a R&P Partisol®-Plus Sequential Air Sampler (Model 2025). The sampler is a manual air sampling platform which has been designed to meet US EPA Reference Designation (RFPS-1298-127). Approximately 24 m³ of air is sampled daily through a particle size separator, which is contained within the PM₁₀ sampling head. The impactor removes particles with a diameter >10 µg and the remaining particles are collected on pre-weighed 47mm diameter filters. The Partisol® sampler is programmed to automatically replace each sampled filter by a new pre-weighed filter at midnight. This ensures that each filter represents a sampling period of exactly 24 hours. Gravimetric determination is carried out pre- and post-sampling by a UKAS accredited laboratory using a calibrated scientific balance.

As with all previous results, all samples were in compliance with the CAFE Directive 2008/50/EC limit value for PM₁₀ which is 40 µg/ m³ per calendar year or 50 µg/m³ in any 24-hour period (not to be exceeded more than 35 times in a calendar year) (see <http://www.epa.ie/air/quality/standards/>). The monthly average for all samples to date is reported in Table 2.



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T Donnelly, T Hayes, D Kelly, E Porter

If you have any questions regarding the information above, please do not hesitate to contact us.

Yours sincerely,



AWN Consulting

cc. *Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council*
Director, Kilsaran International
Jim Fanning, Health and Safety Authority

encl. *Table 1 - Dust Monitoring Programme Results, Ballinclare Quarry, 20 October - 11 November 2016*
Table 2 - Dust Monitoring Averages, 17 June 2016 – 11 November 2016
Figure 1a - Dust Monitoring Locations

Table 1: Dust Monitoring Programme Results, Ballinclare Quarry, 20 October – 11 November 2016

Filter Paper ID	Date	PM10 Concentration ($\mu\text{g}/\text{m}^3$)
05627/07	20/10/2016	7.2
05627/08	21/10/2016	7.3
05627/09	22/10/2016	13.4
05627/10	23/10/2016	16.0
05627/11	24/10/2016	13.5
05627/12	25/10/2016	17.2
05627/13	26/10/2016	12.4
05627/14	27/10/2016	8.6
05627/15	28/10/2016	8.2
05627/16	29/10/2016	9.9
05627/17	30/10/2016	15.6
05627/18	31/10/2016	24.7
05627/19	01/11/2016	17.0
05627/20	02/11/2016	0.2
05627/21	03/11/2016	11.4
05627/22	04/11/2016	9.1
05627/23	05/11/2016	12.5
05627/24	06/11/2016	13.5
05627/25	07/11/2016	6.0
05627/26	08/11/2016	7.4
05627/27	09/11/2016	9.3
05627/28	10/11/2016	12.1
05627/29	11/11/2016	0.2

Table 2: Dust Monitoring Averages, 17 June 2016 – 11 November 2016

1-month Average	10.0 $\mu\text{g}/\text{m}^3$
No. Days >50	0
90.4th %ile	17
No. Days Sampling	106