
From: Joeline Cantwell
Sent: 06 July 2016 12:02
To: Jim Fanning
Cc: Maura Kavanagh
Subject: Emailing Kilsaren email..pdf

Hi Jim,

Please see email below and attached PDF document. I think this relates to contact ID's: 103841 & 103864.

Can you advise how this should be acted upon.

Kind Regards,

Joeline

Joeline Cantwell
Workplace Contact Unit

Dir: (01) 7997809
Email: joeline_cantwell@hsa.ie
Web: www.hsa.ie

Health and Safety Authority
5th Floor
Government Buildings
The Glen
Waterford
X91P04E

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[HSA Facebook](#)

From: [REDACTED] [[mailto:\[REDACTED\]@yahoo.com](mailto:[REDACTED]@yahoo.com)]
Sent: 05 July 2016 14:01
To: WCU
Subject: Emailing Kilsaren email..pdf

Hi

I just received an email from kilsaran quarries regarding the asbestos issue from their Co wicklow quarry.

Please see the attached. It is vague and does not confirm that the site at Carrig Mill, Greystones, Co.Wicklow is not contaminated.

Can this please be investigated. And could you please keep me informed.

Regards



[Sent from Yahoo Mail on Android](#)

From: [Joeline Cantwell](#)
To: [Jim Fanning](#)
Cc: [Maura Kavanagh](#)
Subject: Emailing Kilsaren email..pdf
Date: 07 July 2016 09:11:46

Hi Jim,

That query has been placed onto GeoSmart and assigned reference number: 105010 awaiting assignment to you.

Kind Regards,

Joeline

Joeline Cantwell
Workplace Contact Unit

Dir: (01) 7997809
Email: joeline_cantwell@hsa.ie
Web: www.hsa.ie

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From: Jim Fanning
Sent: 06 July 2016 15:48
To: Joeline Cantwell
Cc: Maura Kavanagh
Subject: RE: Emailing Kilsaren email..pdf

Hi Joeline,

Probably best to record this as a separate RFI for assignment to myself.

Thanks

Jim

From: Joeline Cantwell
Sent: 06 July 2016 12:02
To: Jim Fanning
Cc: Maura Kavanagh
Subject: Emailing Kilsaren email..pdf

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Please see the attached. It is vague and does not confirm that the site at Carrig Mill, Greystones, Co.Wicklow is not contaminated.

Can this please be investigated. And could you please keep me informed.

Regards

[REDACTED]

From: [REDACTED]
To: [Jim Fanning](#)
Subject: Fw: Carrig Mill, Greystones, Co. Wicklow.
Date: 06 July 2016 18:50:57

Jim

Thanks for your help with seeking the below email to clarify matters regarding Carrig Mill.

However the emails last paragraph could just as easily state that it cannot be sure if contaminated material was supplied to Carrig Mill.

Can I ask that you please ask [REDACTED] to further investigate and confirm whether any contaminated material was or was not supplied to the Carrig Mill estate?

Thanks again for your help.

Regards
[REDACTED]

[Sent from Yahoo Mail on Android](#)

On Wed, 6 Jul, 2016 at 16:28, [REDACTED]
<[REDACTED]@kilsaran.ie> wrote:

Dear [REDACTED]

Following an enquiry from the HSA I have been asked to clarify information regarding material supplied to Carrig Mill, Greystone, Co. Wicklow.

Kilsaran have had a minor incident with a naturally occurring mineral at our Ballinclare Quarry, Co Wicklow. I can confirm that this is an isolated incident in a small area of the quarry and one that our routine quality control procedures identified quickly. All customers who were supplied with potentially contaminated material have been contacted, along with all relevant authorities, including the HSA, EPA and Wicklow County Council.

Once we identified all customers potentially affected we embarked on a programme of removal and remediation of all sites, which is currently ongoing. As a precautionary measure all quarry activities are temporarily suspended until the resumption of works in the near future.

Having completed a reasonable due diligence it is our belief that no contaminated

material was supplied to Carrig Mill.

Kind Regards,

[REDACTED]

[REDACTED]



Piercetown, Dunboyne, Co Meath

T: +353 [REDACTED]

F: +353 (0)1 8251506

W: www.kilsaran.ie



Please consider the environment - do you really need to print this email?

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This email has been scanned for spam and malware by The Email Laundry.

From: [Jim Fanning](#)
To: [REDACTED]
Subject: RE: Kilsaran Remediation Works - status email 1
Date: 06 July 2016 17:15:00

Hi [REDACTED]

Re: Sea Road

It may be feasible to develop an appropriate methodology along those lines, subject to a thorough risk assessment. Obviously factors to take into consideration would be nature and mix of materials involved and any variation of same through stockpile. Eg can any risk material be identified as work progresses? Risks to be considered include airborne or other loss of contaminant during handling/loading and during transport and must be demonstrably fully addressed by chosen methodology.

I will be available to discuss this further, and perhaps a visit next week.

Kind regards

Jim Fanning

From: [REDACTED] [mailto:[REDACTED]@awnconsulting.com]
Sent: 06 July 2016 15:10
To: Jim Fanning
Cc: [REDACTED]
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]

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

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

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AWN Consulting Limited registered in Ireland No. 319812

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

From: [REDACTED]
To: [Jim Fanning](mailto:jim_fanning@hsa.ie)
Cc: [REDACTED]
Subject: RE: Kilsaran Remediation Works - status email 1
Date: 06 July 2016 17:11:35
Attachments: [Letter dated 24 June 2016.pdf](#)

Final letter for Harvieston.

[REDACTED]

AWN Consulting
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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]
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]

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

[Click for map](#)

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Kind Regards

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Jim Fanning

James Fanning | Inspector, Occupational Hygiene
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Awn Consulting Limited registered in Ireland No. 319812

24/06/2016

Mr [REDACTED]
Harvieston Ltd,
Ashwood Farm
Ballybrew
Enniskerry
Co. Wicklow

RE: Harvieston (Service Station) Ltd.

1.0 INTRODUCTION

This report has been prepared by AWN Consulting Ltd on behalf of Kilsaran Concrete and refers to Harvieston Service Station, Newtown Mount Kennedy. The site location is shown on Figure 1 **attached**.

1.1 Background

Following the recent findings by Kilsaran of the unusual presence of naturally occurring asbestos (Actinolite) in their quarry in Ballinclare, Co Wicklow, Kilsaran have undertaken to address any product delivered to customer sites during the period that this area of the quarry had been blasted. This recovery exercise has been undertaken with the knowledge and agreement of the Health and Safety Authority, the EPA and Local Authority for the quarry.

In the case of Harvieston Service Station, 40 tonnes of aggregate from the quarry which was produced during the time period when material could have had low concentrations of actinolite present, was delivered to the property and used for fill in around the underground fuel filters and tanks. This was during the final stages of the infill and the area of contaminated aggregate was quickly identified and covered in visqueen sheeting (Heavy gauge 1000-1100 HTP plastic). The photograph below shows the covering being installed over the contaminated area.

The visqueen sheeting will be kept in place and the site covered with concrete to form the concrete slab for the new forecourt to the service station. The concrete will be 300mm over the underground tank farm and the will reduce to 250mm where forecourt pumps are positioned. The visqueen sheeting will serve as a reference point to indicate the area of contamination in the event that the area is excavated in the future.



1.2 Summary of Laboratory Testing

As an initial precautionary step, air quality monitoring around the perimeter of the site was undertaken by AWN air quality specialists on 27 May 2016 and analysed by [REDACTED] (About Safety Ltd), Safety and Asbestos Specialist. The preliminary findings showed no asbestos fibres to be present in the ambient air.

Forty-seven samples of the aggregate material were collected by contractors with asbestos training from Hegarty Demolition from across the area of contamination in a 5x9(+2) sampling grid at 5m intervals. The location of these are shown on Figure 1 **attached**. The samples were analysed by Chemtest UK who are accredited for asbestos analysis. The laboratory results, **attached**, show that the majority of samples (44 of 47) contained a concentration of fibres (expressed as a percentage) which were below or only slightly in excess of the laboratory detection limit of 0.001% - 1 sample less than the detection limit, 21 samples at 0.001%, 9 samples at 0.002%, 7 samples at 0.003%, and 6 samples between 0.004 and 0.009%. The location of the different concentrations across the grid are shown in Figure 1.

Three samples indicated higher percentages in the aggregate where asbestos clumps were noted. These were located in the SE corner (SS39, SS47) and in the center of the assessed area (SS28).

Following the covering of the contaminated area with visqueen sheeting, reassurance air sampling was undertaken on 21 June 2016 at the site by G&L Consulting Ltd to ensure the site was safe for occupation. G&L Consulting Ltd. are UKAS accredited in accordance with the recognised International Standard ISO/IEC 17025:2005.

1.3 Conclusions & Recommendations

There are no generic assessment criteria for asbestos in soils in Ireland. Assessment of asbestos is risk based in Ireland. The risk based criteria is based on the nature (friability) of the asbestos present and nature of the holding material, presence/absence of a pathway for exposure and if a pathway exists, the type of activity by an individual and length of exposure.

The approach for source- pathway- receptor linkage as outlined in the *EPA guidance on the management of contaminated land, 2013* has been followed in terms of

identifying risk to receptors. In assessing any risks from asbestos containing material, it is critical to take account of any depth of contaminated material as only asbestos fibres in the near surface are likely to be released to air and potentially be inhaled.


Based on the samples analysed, the results show low concentrations of fibres (mostly marginally above detection limit). However, as there is no pathway for exposure to receptors as the material will be covered by concrete, there is no associated risk to people on the surface and normal users of the property. It is concluded that for normal use of the property, there is no pollutant linkage and therefore there is NO RISK to normal users. The air analyst completed reassurance air monitoring and confirmed that fibres do not exceed the HSA COP 2011 value of 0.1f/ml. A copy of this certification is **attached**. A Certificate of Completion was also provided stating that the areas are safe to be accessed / occupied, a copy of which is **attached**.

Should anyone require to undertaken excavation works under the concrete, the duration of such works typically would be of short duration. Concentrations sampled on site suggest low concentrations present and sampling of fibre release data from dust material collected at the source zone within the quarry has confirmed very low concentrations (0.003 – 0.014%) of fibres are available for release. Based on the concentration present combined with the potential for a short period of exposure a LOW RISK is determined to be present during normal excavation works.

Based on the possible presence of low concentrations of asbestos fibres present, the location of any potentially contaminated material should be noted to allow appropriate risk assessment and appropriate measures during any excavation works which would expose or encounter these materials.

Yours sincerely,




Director

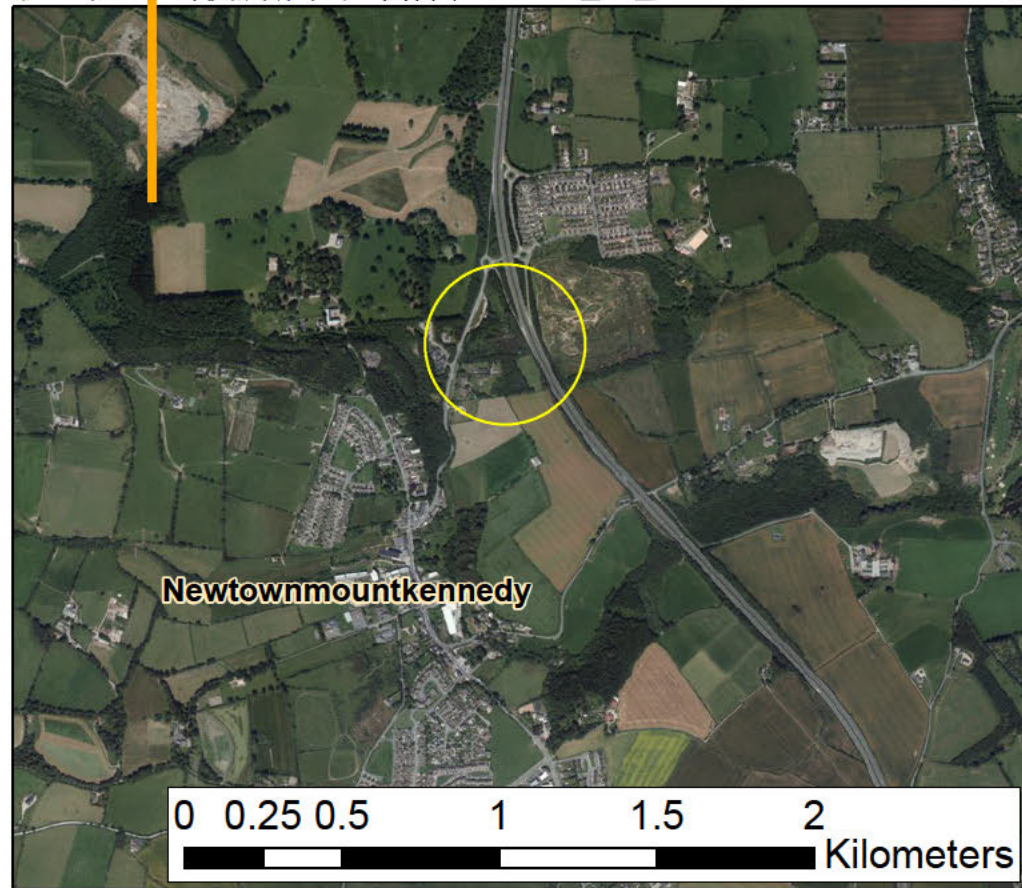
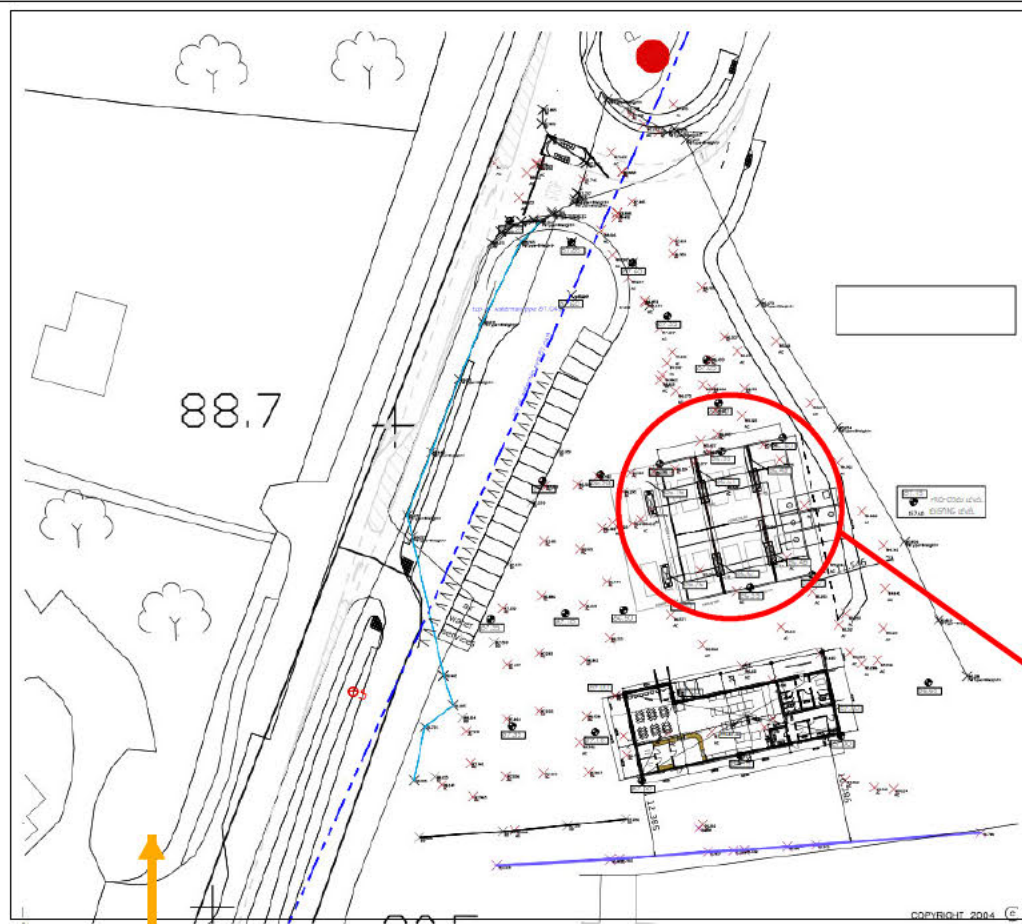


Dr 
Director

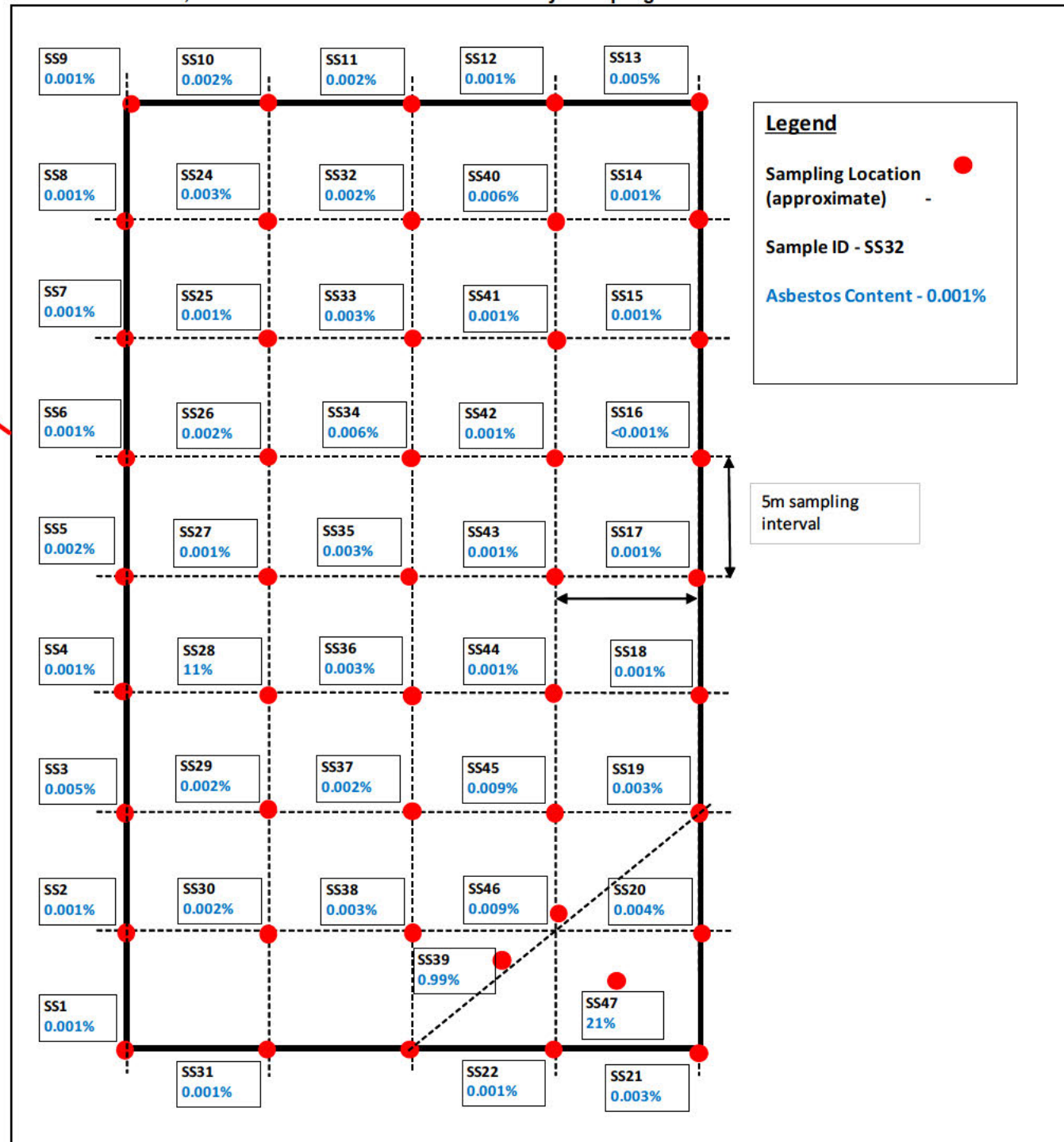
References

EPA guidance on the management of contaminated land, 2013
HSA COP 2011 for the safety health and welfare at work (chemical agents regulations) 2001 S.I. 619 of 2001
Nathanial C, Jones A, Ogden R, & Robertson A (2014) C733 – Asbestos in soil and made ground; a guide to understanding and managing risk.

*Inc. Figure 1 – Sampling Programme (Harvieston Service Station)
ChemTest Final Report (Report No.: 16-12876-1)
Reassurance Certificate (Certificate Ref. No. J572347/AG01)
Certificate of Completion of Works (Certificate Ref. No. J572358/AG01)*



Harvieston Ltd. , Service Station - Newtownmountkenny - Sampling Grid



Legend
 Sampling Location (approximate) - ●
 Sample ID - SS32
 Asbestos Content - 0.001%

5m sampling interval

AWN licence no. EN 0007513
 Note: Drawing is for illustrative purposes only;
 Source: ESRI maps

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AWN Consulting Ltd
 The Tecpro Building,
 Clonsaugh Business & Technology Park
 Dublin 17,
 Tel: + 353 1 847 4220
 Fax: + 353 1 847 4257

CLIENT:
Kilsaran

DRAWING TITLE:
Harvieston (Service Station) Ltd. Newtownmountkenny

PROJECT:
Sampling Programme

Project Ref: TH/16/9020SR01

DRAWN:	CHECKED:	APPROVED:	DATE:
P.G.	T.H.	T.H.	21/06/2016
Figure 1		1	A3 NTS
REVISION DESCRIPTION		SHEET	REV



Final Report

Report No.: 16-12876-1
Initial Date of Issue: 06-Jun-2016
Client AWN Consulting
Client Address: The Tecpro Building
Clonshaugh Business and Techno
Dublin 17
Ireland
Ireland

Contact(s): [REDACTED]
[REDACTED]
[REDACTED]

Project 16-9020 - Service Station,
Newtonmountkennedy

Quotation No.: **Date Received:** 01-Jun-2016

Order No.: **Date Instructed:** 01-Jun-2016

No. of Samples: 46

Turnaround (Wkdays): 2 **Results Due:** 02-Jun-2016

Date Approved: 06-Jun-2016

Approved By:
[REDACTED]

Details: [REDACTED]

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting	Chemtest Job No.:				16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876
Quotation No.:	Chemtest Sample ID.:				302498	302499	302500	302501	302502	302503	302504	302505	302506
	Client Sample ID.:				SS1	SS2	SS3	SS4	SS5	SS6	SS7	SS8	SS9
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	0.001	0.001	0.005	0.001	0.002	0.001	0.001	0.001	0.001
Total Asbestos	N	2192	%	0.001	0.001	0.001	0.005	0.001	0.002	0.001	0.001	0.001	0.001

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting		Chemtest Job No.:				16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876
Quotation No.:		Chemtest Sample ID.:				302507	302508	302509	302510	302511	302512	302513	302514	302515
		Client Sample ID.:				SS10	SS11	SS12	SS13	SS14	SS15	SS16	SS17	SS18
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:				27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016
Determinand	Accred.	SOP	Units	LOD										
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	0.002	0.002	0.001	0.005	0.001	0.001	<0.001	0.001	0.001	0.001
Total Asbestos	N	2192	%	0.001	0.002	0.002	0.001	0.005	0.001	0.001	<0.001	0.001	0.001	0.001

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting		Chemtest Job No.:				16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876
Quotation No.:		Chemtest Sample ID.:				302516	302517	302518	302519	302520	302521	302522	302523	302524
		Client Sample ID.:				SS19	SS20	SS21	SS22	SS24	SS25	SS26	SS27	SS28
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:				27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016
Determinand	Accred.	SOP	Units	LOD										
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	0.003	0.004	0.003	0.001	0.003	0.001	0.002	0.001	11	
Total Asbestos	N	2192	%	0.001	0.003	0.004	0.003	0.001	0.003	0.001	0.002	0.001	11	

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting		Chemtest Job No.:				16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876
Quotation No.:		Chemtest Sample ID.:				302525	302526	302527	302528	302529	302530	302531	302532	302533
		Client Sample ID.:				SS29	SS30	SS31	SS32	SS33	SS34	SS35	SS36	SS37
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:				27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016
Determinand	Accred.	SOP	Units	LOD										
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.006	0.003	0.003	0.002
Total Asbestos	N	2192	%	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.006	0.003	0.003	0.002

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting	Chemtest Job No.:				16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876	16-12876
Quotation No.:	Chemtest Sample ID.:				302534	302535	302536	302537	302538	302539	302540	302541	302542
	Client Sample ID.:				SS38	SS39	SS40	SS41	SS42	SS43	SS44	SS45	SS46
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016	27-May-2016
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	0.003	0.99	0.006	0.001	0.001	0.001	0.001	0.009	0.002
Total Asbestos	N	2192	%	0.001	0.003	0.99	0.006	0.001	0.001	0.001	0.001	0.009	0.002

Project: 16-9020 - Service Station, Newtonmountkennedy

Client: AWN Consulting	Chemtest Job No.:				16-12876
Quotation No.:	Chemtest Sample ID.:				302543
	Client Sample ID.:				SS47
	Sample Type:				SOIL
	Date Sampled:				27-May-2016
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	Fibres/Clumps
Asbestos Identification	U	2192	%	0.001	Actinolite
Asbestos by Gravimetry	U	2192	%	0.001	21
Total Asbestos	N	2192	%	0.001	21

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk



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Specialists in Asbestos Management

REASSURANCE			
Certificate Reference Number:	J572347/AG01	Client Order No. (if applicable)	TBC
Sampling Date:	21 Jun 2016	Project: (if applicable)	
Client Name and Address:	AWN Consulting Limited (IE), The Tecpro Building, Clonshaugh Business & Technology Park Dublin 17		
Site Address:	Harvieston Service Station, Newtown Mount Kennedy, Co. Wicklow, Ireland		
Location of Work Area:	New Forecourt		
Removal Contractor Name and Address:	N/A, ,		
Inspecting/Sampling Officer:	[REDACTED]		
Fibre Counting Analyst:	[REDACTED]	Time Arrived on site:	15:15
Reason for Sampling:	Reassurance test carried out due to possible contamination of Actinolite		

Sampling carried out by our own officers follows the procedures documented in our internal method M4 – The Sampling of Air, by Personal and Static Means, for Analysis to Determine the Airborne Asbestos Fibre Concentrations. Analysis has been carried out in accordance with our internal method M1 – The Measurement of Asbestos Fibre Concentrations, in Air, by Light Microscopy. Both these internal methods follow the standard methods as outlined in the HSE Literature ‘Asbestos: The analysts’ guide for sampling, analysis and clearance procedures.’ Any deviations from these standard methods are detailed above. No responsibility is taken for sampling that is not carried out by our own officers. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. This test report shall not be reproduced, except in full, without the written permission of the laboratory.

This is a supplementary report. Spelling mistake amended. Report amended by [REDACTED] on 22 Jun 2016 10:38
Spelling mistake amended. Report amended by [REDACTED] on 22 Jun 2016 11:00



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G&L Consultancy Ltd
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Registered Office: Unit 5A, Chelston Business Park, Castle Road, Wellington, Somerset TA21 9JQ
G&L Consultancy Ltd is a company registered in England and Wales with a Company Number: 3687929
Company Directors: Mrs J Lewis and Mr P Lewis. VAT Registration Number: 729 1092 34



AIR MONITORING												
Site Ref No	Laboratory Reference No	Pump No	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification
			Start End	Total Mins	Start End	Total (L/min)						
1	AG001051	GL1095	15:18	37	15.0	15.0	555	173	2	0.0010	<0.01	0.01
			15:55		15.0							
2	AG001055	N/A	N/A	N/A	N/A	N/A	N/A			Field Blank	0.000	
			N/A		N/A							
Site Temp:			18°C		Analysis Location:				Site Vehicle			
Site Pressure:			N/A		Exposed Filter Diameter (D):				22.0mm			
Flowmeter Correction Factor:			N/A		Walton Beckett Graticule (d):				100µm			
Slides Stored In Slide Box No:			AS06		5th Line Of NSE/NPL Test Slide Observed:				YES			
Comments:												
Reassurance test carried out at the request of the client.												

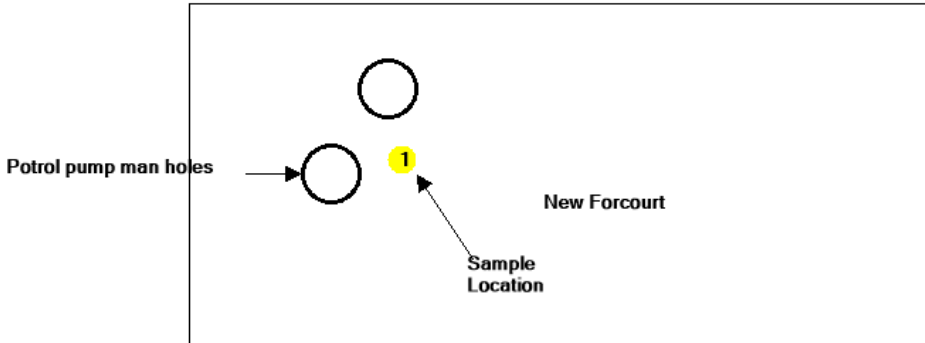
Site Ref No	Sampling Locations
1	New Forecourt adjacent man hole covers west of forecourt
2	Field Blank

VISUAL INSPECTION	
Visual Inspection Carried out:	NO - at the clients request, a visual inspection was not carried out of the area
N/A	

Result of Air Monitoring: SATISFACTORY			
Report issued by: [REDACTED]	Signed: [REDACTED]	Date: 21 Jun 2016	Time: 16:28
Report received by Site Supervisor:		Print name: No supervisor on site	

REASSURANCE PLAN

Site Address:	Harvieston Service Station, Newtown Mount Kennedy, Co. Wicklow, Ireland [SCOPEOFWORK]
Location of Work Area:	New Forecourt
Sampling Date:	21 Jun 2016



This plan is not to scale.



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CERTIFICATE OF COMPLETION OF WORKS			
Certificate Reference No:	J572358/AG01	Client Order Number (if applicable):	TBC
Inspection Date:	22 Jun 2016	Project (if applicable):	
Client Name and Address:	AWN Consulting Limited (IE), The Tecpro Building, Clonshaugh Business & Technology Park, Dublin 17		
Location of works:	Harvieston Service Station, Newtown Mount Kennedy, New Forecourt		
Removal Contractor Name and Address:	N/A, ,		
Inspection carried out by:	[REDACTED]		

INSPECTION DETAILS	COMMENTS
Room No/Area Inspected:	New forecourt area adjacent south and north man hole covers.
Work Carried Out:	No work carried out
Evidence of Completion:	Based on satisfactory air test this area is safe to be accessed / occupied. AWN consulting have confirmed the very low concentrations of asbestos remaining deep in the hardcore with no pathway for release can remain and it must be noted that prior to any disturbance to the ground in the future all contractors must be informed of the presents of asbestos.

This certificate has been issued following the completion of the works detailed above to a satisfactory standard. Any visual inspections detailed in this report are outside the scope of our UKAS accreditation. This test report shall not be reproduced, except in full, without written permission from the laboratory.

Issued by: [REDACTED] Signed: [REDACTED] Date: 22 Jun 2016

This is a supplementary report. Spelling mistake amended. Report amended by [REDACTED] on 22 Jun 2016 15:15
Spelling mistake amended. Report amended by [REDACTED] on 22 Jun 2016 15:41



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Company Directors: Mrs J Lewis and Mr P Lewis. VAT Registration Number: 729 1092 34



From: [REDACTED]
To: [Jim Fanning](mailto:jim.fanning@hsa.ie)
Cc: [REDACTED]
Subject: RE: Kilsaran Remediation Works - status email 1
Date: 06 July 2016 17:10:36
Attachments: [Appendix 1a.pdf](#)
[Appendix 1b.pdf](#)
[Appendix 2.pdf](#)
[Appendix 3 - Figure 1.pdf](#)
[Appendix 4 - Figure 1A.pdf](#)
[AWN site sign off - Ashford 06 July 2016.pdf](#)

Ashford (Rosanna Estate) sign off.

[REDACTED]

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

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

[Click for map](#)

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AWN Consulting Limited registered in Ireland No. 319812

From: [REDACTED]
Sent: 06 July 2016 16:55
To: Jim Fanning <jim_fanning@hsa.ie>
Cc: [REDACTED] <[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]

AWN Consulting
The Tecpro Building
IDA Business and Technology Park

e: [REDACTED]@awnconsulting.com
t: +353.1.847.4220
m: +353.86.028.7026

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Dublin 17

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AWN Consulting Limited registered in Ireland No. 319812

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]

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

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w: www.awnconsulting.com

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AWN Consulting Limited registered in Ireland No. 319812

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

A Culture of Workplace Safety and Health for All

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AWN Consulting Limited registered in Ireland No. 319812

Client: AWN Consulting Ltd. The Tecpro Building, Clonshaugh Business & Technology Park, Dublin 17	Contractor: Gravity Construction Ltd. Barntown Co. Wexford	Site Address: Ashford Riding Facility Ashford Co. Wicklow
Contact: [REDACTED]	Contact: [REDACTED]	
Areas to be assessed: Ballinclare Quarry	Scope of Works: Background monitoring of Ambient Air at designated areas around site.	Sampled & Tested on 27/06/16 Analyst: [REDACTED] Lab location: Base

Type of Test	Reason for Test	Sample No.s	Purpose/Detail of Test
	Prior to work		Background test to ascertain the datum level of airborne respirable fibres prior to carrying out asbestos remedial works.
	During remedial work		Background test to ascertain the concentration of airborne respirable fibres during preparation of repatriation area by excavators.
Background Test	Following removal works	Jkf 160627 07 - 10	Background test to ascertain the concentration of airborne respirable fibres as a reassurance to occupants.
	During Transiting		Background test to ascertain the concentration of airborne respirable fibres during operatives transiting from area of work to decontamination facilities.
	During moving of Waste		Background test to ascertain the concentration of airborne respirable fibres in the waste route during the moving of waste from area of work to disposal facilities.
	Assessment of Laboratory environment		Background air monitoring to ensure suitability of the environment of the laboratory where fibre counting is undertaken.
Leak Test	Check the integrity of enclosures		Leak test of the integrity of the enclosure and the efficiency of control measures implemented during the <u>REMOVAL OF / REMEDIAL WORKS*</u> on asbestos containing materials within an enclosed area.
Clearance Indicator Test	Clearance of enclosures		Clearance indicator test to ensure airborne respirable fibre level is within the 'permitted level of site cleanliness' to allow normal occupancy of area previously enclosed following the <u>REMOVAL OF / REMEDIAL WORKS*</u> on asbestos containing materials.
Reassurance Test	Reassurance upon striking of enclosures		Reassurance air test to ascertain level of airborne respirable fibres following the removal of enclosure.
Personal Monitoring	Compliance Monitoring		Personal air test to assess whether or not personal exposures of workers are in compliance with <u>4h/10 min control limit</u> .
	Respirator Assessment		Personal air test to assess the effectiveness of dust suppression measures and the suitability of respiratory protection during asbestos removal works.
Blank	Media Blank		Blank filter test to ensure the suitability of sampling filters.
	Field Blank		Blank filter test to ensure suitability of sampling filters and integrity of counting process.
	Lab Blank		Blank filter test to ensure the suitability of lab environment following failure of field test.
Other			

*Delete as appropriate

<p>Enclosure(s)</p> <p>HAS ² met the Clearance requirements of MDHS 20/4 and HSC248 and may be dismantled. For enclosure locations please see over page. For satisfactory Clearance, 80% of samples must be <0.01 f/ml and all samples must <0.015 f/ml.</p> <p>Where leak tests were taken the results indicated that a leak WAS / WAS NOT² detected in the following enclosure:</p> <p>N.B. <0.01 f/m³ is generally considered to be satisfactory for leak tests although the Analyst may take action should they suspect asbestos fibres are present on the slide irrespective of the result.</p> <p>Sampling was carried out using membrane filter methods in accordance with the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 and the associated EU directives, taking cognisance of Health and Safety Executive Guidance HSG 248.</p>
