

ASBESTOS REMOVAL RAMS & PLAN OF WORKS

Description: ACM removal from Sea Road Site. For Kilsaran Concrete Products, c/o Sea Road, Kilcoole Co. Wicklow.

Date: 14/06/2016 **Doc no.** 3220 RAMS 001 ACM Removal 160614

Prepared by: [REDACTED]

Rev
01



O'KELLYBROS
DEMOLITION & ENVIRONMENTAL
CONTRACTORS

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7

Excavation of materials

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	<p>I. Excavation and Removal of this material will be overseen by AWN the controlling body and carried out by OKB site Management and their ACM removal trained operatives. The area prior and during the excavation will be surveyed using as-build drawings. A visual inspection will indicate if safe to dig. Digging will take the form of skimming the ground. This will allow for safe and controlled excavation.</p> <p>II. When loading these ACM laden materials, AWN will be present on site and will carry out visual inspection and air monitoring during the excavation / loading of this material. All AWN and OKB operatives will wear ACM PPE during the process of removing the ACM. Water spray surfactant will be used to keep dust down as during material movement AWN will monitor to ensure safe levels are maintained and also provide direction in maintaining and ensuring safe levels.</p> <p>III. The vacuum loader will enter the site and be directed into a clean or covered loading area by a designated spotter, this will be alongside the excavation area. When the area is available the vacuum loader will engage the suction and proceed to be loaded buy sucking material/debris/fibres throught he lance/hose assembly. This load will be kept moist with the Water Surfactant at all times. Once loaded to level the sluic valve will be locked shut and the clear hoses disconnected. The vacuum loader will proceed to the disposal site.</p> <p>IV. The load will be tipped out in the designated area. The vacuum loader will return for another load.</p> <p>V. AWN at all times will carry out Air Monitoring during material handling operation, additionally constant monitoring being determined by lab testing over the extent of the site this to ensure that if any airborne fibres on site are within ACM removal guidelines.</p> <p>VI. All areas where excavation is being carried out will be assessed on regular basis by AWN analysist as the work proceeds and then finally once the work is carried out by all involved, AWN to assess if any remaining materials are present and need to be removed.</p>
	<p>VII. Once all material has been removed from the ground, there will be a requirement for visual inspection and air Sampling.</p> <p>VIII. Once all the hand back documentation is completed to satisfy AWN and Kilsaran Concrete Products. OKB will De-mob from site.</p>
	<p>Notes During the Works</p> <p>I. All operatives involved in the close monitoring and excavation of the material will need to wear full PPE for working with ACM.</p> <p>II. Air Monitoring will be ongoing by AWN independent analysist on site. Using best practices all operations will be carried out under HSA guidelines on ACM safe removal</p> <p>III. All materials removed from site will be disposed appropriately.</p> <p>IV. Main segregation Hoarding will be upgraded with second layer to ensure that the interface is maintained. This will be monitored and logged on a regular basis to ensure the integrity of the site security.</p>

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4 METHOD OF WORK FOR REMOVAL (cont.)

b. Give any other site specific description of the working method to be used with reasons

c. Describe which fibre suppressant technique is to be used

Mist Spraying Shadow Vacuum

d. Is injection to be used? Yes No

If yes Please state Procedure, Wetting time and needle patterns

State what tools and other equipment are to be used

20 rolls 1K gauge Poly										
List of plant / excavators as detailed by above										
20 rolls tape										
20 tins spray tack										
2 Podium ladders										
Tack rags										
Cloths										

f. Is it work with Asbestos Insulating Board (AIB)? Yes No

5 OTHER RELEVANT SITE SPECIFIC INFORMATION NOT INCLUDED IN O'KELLY BROS ASBESTOS MANUAL

a. Location of Decontamination Unit(s) - Specify position and accessibility:-

See Sketch

Size	8 man	No of showers	2	✓	Gas	✓	Electric	

Clearance test to be carried out in shower and dirty end at end of job by AWN

NB Must be connected to the drainage system with a water filter arrangement

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NB Records of testing of Decontamination units must be kept

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5 OTHER RELEVANT SITE SPECIFIC INFORMATION NOT INCLUDED IN O'KELLY BROS ASBESTOS MANUAL (cont.)									
b. Decontamination Procedures & Protective Clothing									
(i) Personnel Decontamination									
<input checked="" type="checkbox"/>	Transit	<input type="checkbox"/>	Non-Transit						
Has transit route been agreed with the client?		<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No				
Comments		Within the confines of the site. See sketch							
(iii) Type 'H' Vacuum Cleaners									
(a)	No of industrial type (In Work area)	2	Size						
(b)	No of Personnel type (airlock)	N/A	Size						
(iv) Protective Clothing for all general works outside of stripping and transiting.									
During Setup and outside man									
Stripping Overalls			Transit Overalls			Underclothes & Sock			
Colour			Colour			Colour			
<input checked="" type="checkbox"/> Re-usable <input checked="" type="checkbox"/> Disposable			<input checked="" type="checkbox"/> Re-usable <input checked="" type="checkbox"/> Disposable			<input checked="" type="checkbox"/> Re-usable <input checked="" type="checkbox"/> Disposable			
c. What are the Welfare facilities?									
Mess room provided by		O'Kelly Bros		<input checked="" type="checkbox"/> mobile welfare pod					
		Client		<input type="checkbox"/>					
		Other		<input type="checkbox"/>					
Please specify type		Site Canteen & Drying Room		Location		Main site area			
Toilets provide by		O'Kelly Bros		<input checked="" type="checkbox"/>					
		Client		<input type="checkbox"/>					
		Other		<input type="checkbox"/>					
Please specify type		Welfare pod		Location		Onsite			
d. Bagging, Storage & Disposal Of Asbestos (Estimated Quantities which may differ from actual on site)									
Disposal by		<input type="checkbox"/>	Ourselves	<input checked="" type="checkbox"/>	Client/Others				
Bag Gauge		<input type="checkbox"/>	350	<input type="checkbox"/>	500	<input type="checkbox"/>	1000		
No of FIBC bags					No Clear Poly Bags (outer)		No of Red bags (inner)		
No of lockable skips		0	Capacity of FIBC (m ³)			No of rolls of Poly			
Estimated Quantity		Weight (tonnes)		400,000kgs 17/06/05 17/05/03 TBC					
Name of Registered carrier:		O'Kelly Bros Civil Engineering Limited							
Permit No of Carrier		WCP							
Transfer Station									
Permit No of Transfer Station									
Disposal Company									
Disposal Site									
Permit No of Disposal Site									
NB Waste transfer WTF Forms must be completed for each load removed from site prior to removal from site									
e. Communication									
i) Will there always be an outside man?		<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No				
If no how is unauthorised access into enclosure prevented?									
Supervisor onsite at all times and in supervision of the site									

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5 OTHER RELEVANT SITE SPECIFIC INFORMATION NOT INCLUDED IN O'KELLY BROS ASBESTOS MANUAL (cont.)

e. ii) How does outside man communicate with those inside enclosure/ work area?
 N/A

iii) Access By Third Parties To The Respirator Zone Other Than The Analyst.

Will this be required?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

6 EMERGENCY PROCEDURES

i) Issued by company for OKB Works	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Client	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

Additional Information/Comments

O'KELLYBROS
 DEMOLITION & ENVIRONMENTAL
 CONTRACTORS

Copies of assessment and plan of work, notification and risk Assessment to be kept on Site during the works.

Competent person who prepared assessment and plan of work: _____

Print Name:	██████████
Job Title:	██████████
Telephone Number:	██████████
Signed:	
Date:	14/06/2016

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7 PLAN OF WORKS i) SITE OVERVIEW



Access Route in Green

Work areas in Red Line

Location of DCU in Blue

DCU location will follow the progression of the work and will be relocated as necessary.

See work zone layout as per sketch below.

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Work Zone 1 highlighted in Yellow

Work Zone 2 highlighted in grey

Note this drawing is for illustration purposes only and should not be scaled.



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RISK CONTROL PLAN –

Risk Rating before control measures: 192

Activity Work: **Removal of ACM Stone Fill**

Foreseeable Risks (tick)

Hazard	Hazard	Hazard
Manual Handling	✓ Slips trips and falls	✓ Live services / Electrocutation
Falls from height	Contact With Moving Vehicles	✓ Adverse Weather condition
Collapse of structure	Fragile roof surfaces	✓ Unstable structure
Serious injury from falling objects overhead	Machinery Contact with overhead Services	✓ Asbestos
Noise	Teleporter Failure or collapse	✓ Public Interaction with site works
Skin and Eye contact with wet concrete	Dust	

Risk Rating Envelope

High Risk = 130 – 450

Medium Risk = 60 – 89

Low Risk = 18 – 59

Substantial Risk = 90 – 129

Initial Risk Rating (without any control measures) Highlight appropriate figure

Severity Rating (A)	Exposure Rating (B)	Exposure Probability Rating (C)
Multiple fatality	15	1 Person
Fatality	12	2 – 5 Persons
Major injury (hospitalisation)	9	6 – 20 Persons
Reportable injury	6	21 – 100 Persons
Minor accident	3	100 + Persons

Persons Exposed To Risk

Public	Other contractors/employees	x Visitors
--------	-----------------------------	------------

Risk Rating Calculation Risk = A X (B + C) = 192 High Risk

Where risk levels are substantial or high, additional controls must be introduced to reduce the risk to the lowest level practicable

Work Description (including location)

ACM removal

Existing Controls

Provision of experienced supervision for duration of the works. Ensure works cordoned off from entry prior to work being carried out

Setup of localised decontamination facilities for the asbestos removal works prior to work being carried out and proper use by all operatives involved

Full onsite supervision by a competent person during removal works

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Proper use of dust suppression and bagging of materials intact as much as possible

Proper usage of PPE and RPE provided by all involved in the project.

Appropriate signage will be erected at the entrances to the asbestos removal areas asbestos signage and associated dangers/ PPE to be worn this will be localised to the asbestos

Comprehensive background monitoring to take place

No abrasive wheels to be used near asbestos containing materials

Existing Controls (cont'd)

All Services to be marked up and rerouted / covered /protected prior to works being carried out

Weather conditions to be monitored prior to works being carried out.

Operatives to ensure the correct PPE and RPE specified in the SSWP and this RA are to be worn in the removal areas and works areas

Ensure the area is assessed for Sharps, services, Old batteries, broken glass etc and Vermin prior to commencing on site

Ensure good use of hygiene facilities and thorough localised decontamination inside bagging areas prior to walking to other areas onsite. Mist spray removal suits and dip boots in localised foot baths prior to exiting bagging zones onsite.

Access to work area will be strictly controlled to prevent unauthorised entry

Task specific PPE must be worn at all times. Please refer to PPE section below

The weather forecast will be checked prior to work commencing and local conditions monitored during the day. If conditions deteriorate, the work area will be made safe with any loose material removed or tied down before any personnel leave site.

No persons are allowed to stand or work within the operating area of vehicles without operators knowledge

The machine operator or banksman must not be under the influence of alcohol/drugs, including prescribed medication

Certification of plant operators must be checked to ensure their competence.

All employees must operate a clean as you go policy to ensure the works area and access routes remains clear of any materials or equipment

Additional Site Specific Controls to Reduce Risk

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RISK CONTROL PLAN

Risk Reduction Rating (after controls introduced)

48

Severity Rating (A)

6

Exposure Rating (B)

4

Exposure Probability Rating (C)

4

Risk Rating Calculation Risk = 48 Low Risk

Low Risk = 18 – 59 Medium Risk = 60 – 89 Substantial Risk = 90 -129 High Risk = 130 - 450

Monitoring Arrangements

- Monitor that all personnel are following safe systems of work
- Check that the method statement is being complied with.
- Check that plant is being maintained and records are kept
- Monitor that appropriate lifting aids are provided before use
- Safety signage and exclusion zone is in place

Supervisor Checks

- Check that all plant and equipment is in good order
- Ensure method statement prepared for work and the method statement is distributed and communicated.
- Where applicable, ensure thorough examination test certificates are available.
- Check that safe access and egress is provided
- Check that there is suitable and sufficient welfare provided for.
- Check the equipment is suitable for the job and fit for the purpose
- Inform management of the works being undertaken.
- Check weather forecasts especially wind speed in advance
- Ensure all plant and lifting equipment certificates are valid and relate to the equipment on site.

Information, Instruction and Training

- All personnel to be inducted.
- All site personnel to be in possession of a FAS Safe Pass card.
- Where applicable, Induction training/toolbox talks to be trained to FAS & C.S.C.S. standard
- All personnel must receive a copy of the method statement, which must be verbally explained
- Any plant operation by uncertified operatives is not permitted, this also applies to subcontractors

Personal Protective Equipment

Plant Operator



Outside Machine



General Op



As & When required

Noisy Works



>85db / Unable to hear somebody at arms distance away

Hot Works

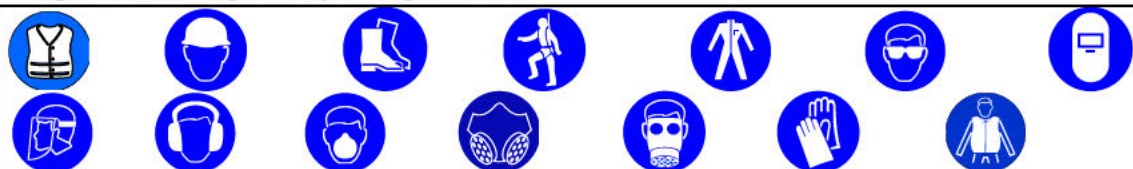


ACM Removal



BLUE

Other Applicable




Risk Assessment Review

Person completing the Risk Assessment

Position

Date of Risk Assessment 14/06/2016

Review date Ongoing

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Toolbox talks Register

Explanation Covering:

Induction	Method Statement	✓	Guidance Note
Site Rules	Risk Assessment	✓	Permit-to-Work (where req)
Public interphase	Chemical Assessment		Confined Space Permit
Emergency Arrangements	Electrical Permit		Work at height permit
Work at Height	Job Specific Training		Permit-to- Erect Scaffold
Other			

Project: ACM Removal

Topics covered in the above:

NO:	Employer	Name	Signature
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

I confirm the above personnel have been provided the information ticked in the boxes above.
Signed.....

Name (Print).....Date.....

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Confirmation of Document Approval by Project Coordinator / Client Rep / PSDP

I _____ acting on behalf of _____ as authorised project supervisor confirm that I have reviewed the attached documentation and I am satisfied for the works to proceed in line with the documentation attached.

SITE:	Kilsaran Concrete Products C/O address below,
ADDRESS:	Sea Road Kilcoole Co. Wicklow.
Method Statement Ref No	3220 RAMS 001 160531
Print Name	
Date & Time (24hr)	
Signature	

NOTIFICATION FORM TO BE USED FOR ANY WORK INVOLVING ASBESTOS

(S.I. No. 386 of 2006, Regulation 11 – Notification)(as amended by S.I. 589 of 2010)

Removal, repair or encapsulation of lagging, insulation or other materials containing asbestos i.e. work other than activities meeting the requirements of Reg 5(b) of S.I. No. 386 of 2006).

This form must be submitted 14 days prior to the start of such work to:-

1. Asbestosnotif@hsa.ie or
2. Health & Safety Authority, Occupational Hygiene Unit, The Metropolitan Building, James Joyce Street, Dublin 1

For office use

EMP No:	EPOW No:	Notif No:

For Notifier to complete

Date of Notification:	16/06/16.
Name of Notifier: O Kelly Bros Civil Engineering Co Ltd Telephone: 061 409999 [REDACTED]	Address: (usual place of business) The Square Ballingarry Co Limerick
Name of Client: Kilsaran Group Contact details of Client: [REDACTED] 086 [REDACTED]	Removal Contractor contact details: (a) Name of person dealing with removal works: [REDACTED]

	Telephone No. of contact person 087 2924860
Address of Asbestos/Work Site: Sea Road, Kilcoole, Co Wicklow	
Scheduled Start Date: 20 th June 2016	Estimated Completion Date: 5 th July 2016
Smoke Test Date: n/a	No. of workers: 4
Type, form and quantity of asbestos likely to be involved: Asbestos containing aggregate (processed stone);circa 450t	
Location(s) of asbestos containing materials at the worksite: Access road, front, rear and side of existing dwelling	
Asbestos activities or processes involved : Removal	
Dust suppression methods to be used: Mist spraying Vacuuming	
Brief description of the manner in which the work is to be done : The aggregate containing aggregate will be mist sprayed in advance of works to prevent release of fibres. Stone will be removed by using vacuum excavator to ensure minimum movement of stone	
Method Statement Attached: See attached	
<ul style="list-style-type: none"> <i>Request for waivers must be accompanied by full justification from the client company and a copy of the plan of work.</i> <i>Where there is a change of a material nature in the carrying out of the activity to which this notification relates, the employer shall inform the Authority of that change in writing and submit a new notification for the purposes of these Regulations advising the Authority in writing of the reasons for this new notification.</i> 	

From: [REDACTED]
To: [Darren Arkins](#)
Cc: [Jim Fanning](#); [REDACTED]
Subject: RE: IOM retrospective risk assessment service
Date: 16 June 2016 20:28:22

Hi

We have spoken with Steve in IOM already – he is overseeing our sample analysis but I might give him a call on this also to see how beneficial it could be to us. Thanks

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: Darren Arkins [mailto:darren_arkins@hsa.ie]
Sent: 16 June 2016 15:16
To: [REDACTED] <[\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)>
Cc: Jim Fanning <jim_fanning@hsa.ie>
Subject: IOM retrospective risk assessment service

Hi [REDACTED]

Please note the service below provided by IOM which could be of assistance to AWN and Kilsaran at some future date.

<http://www.iom-world.org/services/asbestos-services/asbestos-retrospective-risk-assessment/>

regards,
Darren

Darren Arkins
Senior Inspector, Chemicals and Prevention Division

Tel: [01-7997858](tel:01-7997858)
Email: darren_arkins@hsa.ie
Web: www.hsa.ie

Health and Safety Authority,
5th Floor, Government Buildings,
The Glen, Waterford X91PO4E

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AWN Consulting Limited registered in Ireland No. 319812

From: [REDACTED]
To: [Jim Fanning](mailto:Jim.Fanning)
Subject: RE: Ballinclare
Date: 16 June 2016 16:36:08

Hi Jim

I've sent her a message. I know she is offsite in meetings all day today. What is your inquiry regarding?

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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AWN Consulting Limited registered in Ireland No. 319812

From: Jim Fanning [mailto:jim_fanning@hsa.ie]
Sent: 16 June 2016 16:31
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: Ballinclare

Hi [REDACTED]

I'm trying to contact [REDACTED] this pm. Would it be possible to pass her a message asking her to give me a call.

Thanks

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

From: [Darren Arkins](#)
To: [REDACTED] [awnconsulting.com](#)
Cc: [Jim Fanning](#)
Subject: IOM retrospective risk assessment service
Date: 16 June 2016 15:16:10

Hi [REDACTED]

Please note the service below provided by IOM which could be of assistance to AWN and Kilsaran at some future date.

<http://www.iom-world.org/services/asbestos-services/asbestos-retrospective-risk-assessment/>

regards,
Darren

Darren Arkins
Senior Inspector, Chemicals and Prevention Division

Tel: [01-7997858](tel:01-7997858)
Email: darren_arkins@hsa.ie
Web: www.hsa.ie

Health and Safety Authority,
5th Floor, Government Buildings,
The Glen, Waterford X91PO4E

Healthy, Safe and Productive Lives

[HSA Twitter](#)

[HSA Facebook](#)

[HSA YouTube](#)

[Subscribe to Chemicals E-bulletin](#)

From: [Jim Fanning](#)
To: [Darren Arkins](#)
Subject: FW: RAMS for Remediation works on [REDACTED] s property, Redcross, Wicklow
Date: 16 June 2016 12:51:00

Darren
See analyst on [REDACTED] Redcross site below.
I am continuing to copy these mails into AsbestosNotif folder.
Jim

-----Original Message-----

From: [REDACTED] [[mailto:\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)]
Sent: 16 June 2016 12:46
To: Jim Fanning
Cc: [REDACTED] [REDACTED]@kilsaran.ie; [REDACTED]@kilsaran.ie; fred@gravityconstruction.ie; Darren Arkins
Subject: RE: RAMS for Remediation works on [REDACTED] property, Redcross, Wicklow

Hello Jim,

We can confirm that [REDACTED] of G&L Consulting will be present this afternoon to carry out reassurance monitoring today and tomorrow during Gravity Groups removal works at [REDACTED]

Kind regards,
Daniel

[REDACTED] BSc MSc
[REDACTED] AWN

Sent from my iPhone

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AWN Consulting Limited registered in Ireland No. 319812

From: [REDACTED]
To: [Jim Fanning](#)
Cc: [REDACTED] [kilsaran.ie](#); [REDACTED] [kilsaran.ie](#); fred@gravityconstruction.ie; [Darren Arkins](#)
Subject: RE: RAMS for Remediation works on [REDACTED] s property, Redcross, Wicklow
Date: 16 June 2016 12:46:29

Hello Jim,

We can confirm that [REDACTED] of G&L Consulting will be present this afternoon to carry out reassurance monitoring today and tomorrow during Gravity Groups removal works at [REDACTED]

Kind regards,
Daniel

[REDACTED] BSc MSc
[REDACTED] AWN

Sent from my iPhone

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From: [Darren Arkins](#)
To: [Jim Fanning](#)
Subject: FW: Actinolite in quarry
Date: 16 June 2016 12:08:02

From: [redacted] [mailto:[redacted]@hse.gov.uk]
Sent: 16 June 2016 12:02
To: Darren Arkins
Cc: Boylan, Anne; Monson, Bryan
Subject: Actinolite in quarry

Hi Darren, I understand that you have been in contact with Evette in relation to issues arising from the discovery of actinolite in the Ballinclare Quarry in Wicklow. Unfortunately, the scientific team is unable to become involved at present as we have a lot of work on. I don't know if you have been in touch with the Institute of Occupational Medicine in Edinburgh. I know they have carried out some investigations in estimating exposures post-event and associated risks. [redacted] of IOM has been helpful in the past. <http://www.iom-world.org/services/asbestos-services/asbestos-retrospective-risk-assessment/>

Best regards

Carl

[redacted signature block]



83 Ladas Drive, Belfast, BT6 9FR
Helpline: 0800 0320 121
Web: www.hse.gov.uk
Email: mail@hse.gov.uk



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

From: [Jim Fanning](#)
To: [REDACTED]
Cc: [REDACTED] [awnconsulting.com](#); [REDACTED] [kilsaran.ie](#); [REDACTED] [Kilsaran.ie](#); [REDACTED] [Darren Arkins](#)
Subject: RE: RAMS for Remediation works on [REDACTED] s property, Redcross, Wicklow
Date: 16 June 2016 12:05:00

Hi [REDACTED]

I have no comments on your method as provided here. I understand works are beginning today. Who is the independent analyst on this one ?

Kind regards

Jim Fanning

From: [REDACTED] [[mailto:\[REDACTED\]@gravityconstruction.ie](mailto:[REDACTED]@gravityconstruction.ie)]
Sent: 15 June 2016 13:14
To: Jim Fanning
Cc: [REDACTED] [awnconsulting.com](#); [REDACTED] [kilsaran.ie](#); [REDACTED] [Kilsaran.ie](#); [REDACTED]
Subject: RAMS for Remediation works on [REDACTED] property, Redcross, Wicklow

Hi Jim,

Further to a request from Derry yesterday eve, I have attached our method statement, risk assessment and plan of work for Remediation works on [REDACTED] in Red Cross, Wicklow

On review of the same can you come back to me if you have any concerns, if all is ok we were looking to commence works on site tomorrow

Thank you,

[REDACTED]

[REDACTED]



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