

ASBESTOS REMOVAL RAMS & PLAN OF WORKS

Description: ACM removal from Kindelstown Heights Site, for Kilsaran Concrete Products, c/o Kindelstown Heights, Delgany, Co. Wicklow.

Date: 14/06/2016 **Doc no.** 3221 RAMS 001 ACM Removal 160614

Prepared by: [REDACTED]

Rev
01



O'KELLYBROS
DEMOLITION & ENVIRONMENTAL
CONTRACTORS

Sheet No 18 of 19

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:	Kindelstown Heights Delgany Co. Wicklow.
Method Statement Ref No	3221 RAMS 001 160614
Print Name	
Date & Time (24hr)	
Signature	

From: [REDACTED]
To: [Jim Fanning](mailto:Jim.Fanning@awnconsulting.com)
Cc: [REDACTED]@awnconsulting.com; [REDACTED]@kilsaran.ie; [REDACTED]@kilsaran.ie
Subject: RAMS for remediation works in Ballinclare quarry
Date: 15 June 2016 14:47:55
Attachments: [Asbestos Chain of Custody Form.pdf](#)
[Ballinclare Phased works.pdf](#)
[Contaminated material deliveries records.pdf](#)
[Gravity - RAMS for Kilsaran Quarry Works Rev4-3.pdf](#)

Jim,

Please see amended RAMS for remediation works in the Quarry

I have also attached revised maps, and a copy of the records for the contaminated material intake from external sites

These records will be populated on a daily basis to account for all returned fibc's and can be viewed in the weigh bridge office

Regards,

[REDACTED]

[REDACTED]



**Barntown
Wexford
Ireland**

Mob. [+353 \(0\) 87 \[REDACTED\]](tel:+353087[REDACTED])

Office 1890 111 222

Email [REDACTED]@gravityconstruction.ie

Web www.gravityconstruction.ie

Asbestos Removal & Disposal / Land Remediation / Cladding & Re-Roofing / Steel Erecting & Rigging / ESB Pylons

Project Title : _____

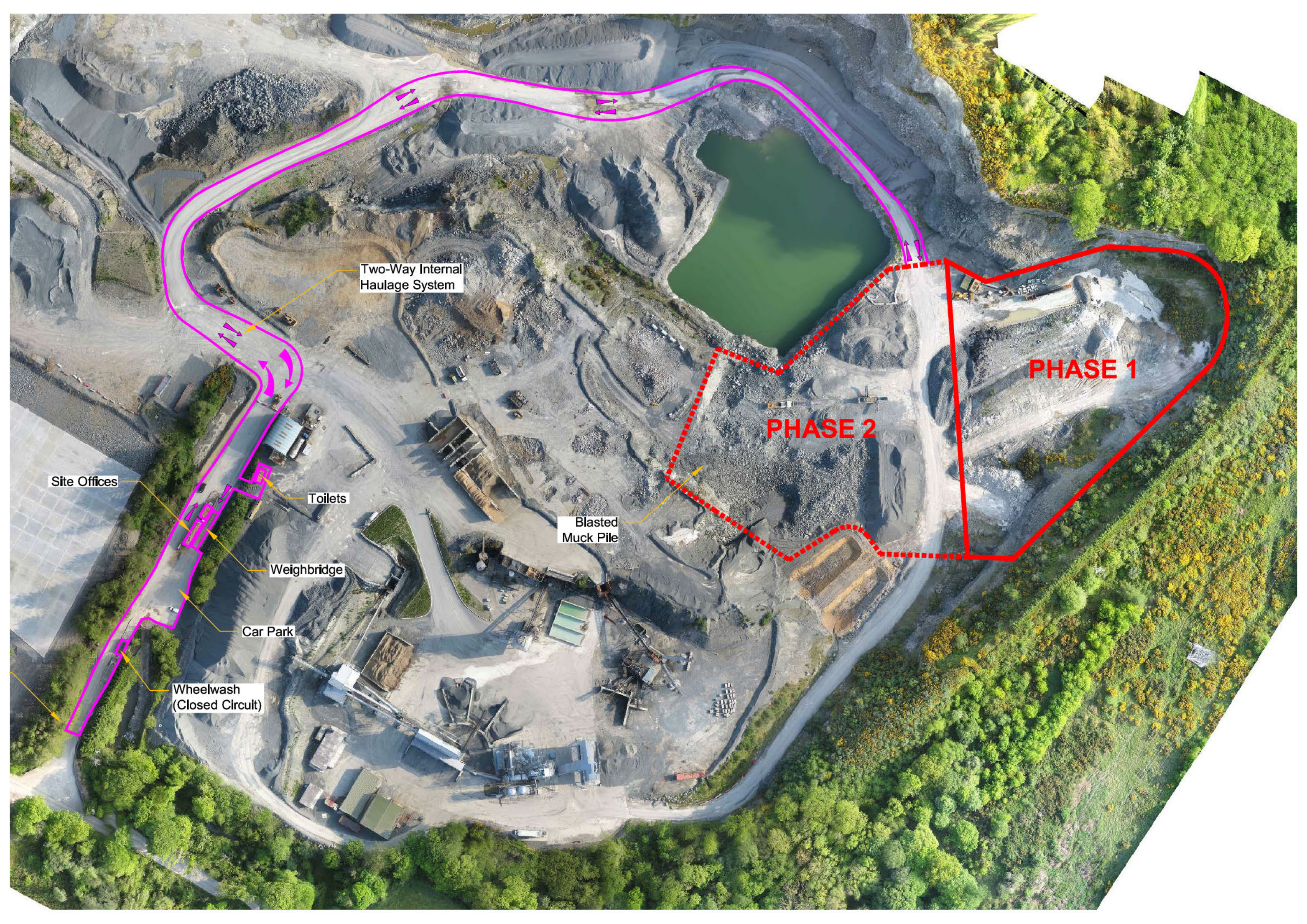
PART 1 - TO BE COMPLETED BY DRIVER BEFORE LEAVING THE SITE	
Truck No. / Exit Doc No :	Drivers Name: [REDACTED]
	Driver Signature: [REDACTED]
Time and Date of Dispatch From Site: 11/6/16.	Vehicle Registration No: [REDACTED]
	Site Supervisor Signature: [REDACTED]

PART 2 - TO BE COMPLETED AT RECEIVING FACILITY BY REPRESENTATIVE	
Site Owner/Company Name Receiving:	Ballinaclare Quarry
Site Address:	Carrigmore, Glenealy, Co. Wicklow
Site Telephone No:	
Site Fax No:	
EPA License No.	
Receivers Name:	FURSETT white
Receivers Signature:	[Signature]
Time & Date Received:	
Weight:	14.5 T
Weighbridge Ticket No:	

PART 3 - TO BE COMPLETED BY PRODUCER	
PRODUCER	Removal Contractor
Company Name:	Company Name: J Maloe
Address:	Address: BACCYCALCANE ATHY
	Collection Permit No: DC-11-1396-01
Telephone No.:	Telephone No.: [REDACTED]
Fax No:	Fax No: [REDACTED]
Contact Name:	Contact Name: [REDACTED]

PART 4 - TO BE COMPLETED BY PRODUCER	
Waste Description:	
Site Address:	EWC Code: 17 05 04
	Description of Waste: Crushed stone containing naturally occurring actinolite (e.g. soil and stone)
Analysis Submitted: Yes <input type="checkbox"/> No <input type="checkbox"/>	Quantity of Waste: 13 X FIBCS
Cell Co-ordinate, Map Ref:	Borehole ID Reference:

PART 5 - COMMENTS	
Crushed stone containing naturally occurring actinolite (reference no.132404)	



Two-Way Internal Haulage System

Site Offices

Toilets

Weighbridge

Car Park

Wheelwash (Closed Circuit)

Blasted Muck Pile

PHASE 2

PHASE 1

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



Contractor Gravity Construction	Name: [REDACTED]	Address: Barntown, Co. Wexford	Tel: 1890 111 222	
			Fax: E-mail: info@gravityconstruction.ie	
Project Name	Kilsaran Quarry Phase 1			
Description of the Task/Activity	Decontamination and Excavation Works within Quarry Facility			
Legislation, Codes of Practice /standards Consulted:	Safety, Health & Welfare at Work Act 2005 – General Application Regulations 2007 Construction Regulations 2013 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010			
Site Address/Location:	Kilsaran Quarry, Ballinclare, Co. Wicklow	Start Date: 15th June 2016	Finish Date: To Be Advised	
			Weather & Conditions permitting	
Personnel Involved	Name	Role/Trade		
	[REDACTED]	Contracts Manager		
	[REDACTED]	360 Excavator		
	[REDACTED]	360 Excavator		
	[REDACTED]	Teleporter, Asbestos operative Asbestos operative Asbestos operative Asbestos operative Asbestos operative Asbestos operative		
Site Supervisor:	[REDACTED]	Tel:	087 [REDACTED]	
Safety Officer	[REDACTED] Kilsaran)	Tel:	087 [REDACTED]	
Key Plant & Tools	Water Mist Spray Units 360° Excavator Mobile Decontamination Unit Client On-Site Welfare Facilities Harris Security Fencing Water Bowser			
Key Materials	UN Approved FIBC asbestos waste bags 1000 Gauge Polythene/3" Reinforced Tape/ red & clear asbestos waste sacks Positive Pressure Respiratory Equipment – type 5/6 coveralls, safety boots, gloves. Asbestos warning signs/barrier tape			
Other Essential Equipment:	H.E.P.A. filtered Vacuums Hand tools, shovels etc. Bagging Hopper			
Specific Identified Residual Hazards: (or refer to the task specific risk)	Asbestos Containing Materials and Contaminated Soil			

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



assessment(s))	
Specific Staff Training	360 Excavator, Teleporter , Asbestos training, Safepass, Asbestos Mask Face Fitting Training,
Sequence of Operations:	<p><u>General</u></p> <p>The Contracts Manager is to explain the full scope works and details of the plan of works to the supervisor.</p> <p>The supervisor is to read this POW (Plan of Works) and risk assessments to all operatives engaged in the project and if required afford them time to read these documents themselves. The supervisor is to ensure that all operatives engaged with this project sign and date the confirmation sheet located to back of this POW. This confirmation is a statement that they fully understand the project in hand, POW and risk assessment.</p> <p>The supervisor will carry out tool box talk on all relevant subjects prior to the project commencing.</p> <p>Specific induction / toolbox kit will be provided for excavation works in Area A Lower Quarry by Kilsaran H & S. A copy of their code of conduct is provided below.</p> <p style="text-align: center;">Kilsaran Excavator Code of Conduct.</p> <ol style="list-style-type: none"> 1. No driver is permitted to have any person in the bucket of a excavator for whatever reason. 2. No driver shall leave his machine idle with the keys readily accessible to others. 3. Drivers should drive with due care for other traffic on site. 4. Drivers should ensure that all excavators have either their rotating beacon and/or lights switched on when in operation. 5. Drivers should report any defects they find on their machine to their supervisor immediately. 6. Drivers should always park their machine with the bucket of the machine left flat on the ground. 7. It is the driver's responsibility to make sure all mirrors are clean. 8. Drivers should respect the instruction of their supervisor/ quarry/pit manager or both. 9. Drivers must ensure that the safety pin is secured after changing buckets 10. Drivers should ensure that the cab of their machine is neat so as not to compromise their driving of the machine. 11. No messing or horse play of any kind on machines will be tolerated. <p><u>Site Establishment</u></p> <p>Reassurance Air Monitoring will be carried out by the Site Analyst prior to works commencing. No works shall commence until such time as the results of the air monitoring have been assessed and approval/permission has been given to by the Analyst to Locate and Establish Decontamination Facilities.</p> <p>At any time during the works the Methods and Procedures as set out may be altered or amended as recommended or</p>

by the Site Analyst.

Any variation in these Methods or Procedures shall be Notified to the Health and Safety Authority in writing.

Once on site operatives will commence installing a Mobile Decontamination Facility.

The Decontamination Unit will be located adjacent to the existing on-site Canteen and Toilet facilities (zone 2).

Once the Decontamination Unit is in operation Warning notices will be placed on the border of zone 1 – 2 to identify the Respirator/Contaminated area and access will be restricted Authorised Personnel Only.

Due to risk of contaminated dust blow from the Process Yard This has been designated as an exclusion zone for a anyone without specific training in the use of respirators. Mitigation is in place to ensure on-going dampening until a protocol for cleaning has been agreed.

Zone 1 Works

The area between the entrance gate and the site establishment area (zone 1) consist of a parking area for Kilsaran staff, site offices (2 x porta cabins) and external weigh bridge.

This area (zone 1) has been designated a Clean Area by the Site Analyst and therefore No Personal Protection or Respiratory Protection Equipment is required to worn.

The works required within zone 1 are the fine cleaning of the two office areas by Asbestos operatives with type H vacuum cleaners.

1. Fine Clean of office no. 2
2. Fine Clean of office no. 1

Once the areas are fully cleaned they will be offered up for inspection and air monitoring by the Site Analyst.

The offices will only be returned for normal occupation after confirmation of test results by the Site Analyst.

A Transit Route to the Work Zone shall be identified and signage erected to ensure No Deviation from the Transit Route.

Signage will be displayed warning of the Hazardous nature of the materials being removed, the Restrictions upon those entering site and the Protective equipment to be worn while within the confined area.

All personnel will be supplied with the appropriate PPE equipment as required under current Health & Safety Legislation.

Zone 2 Works

This area will be used to house the site decontamination/establishment facilities.

Existing on-site toilet and canteen facilities are located within this zone.

Both the toilet and canteen buildings will be fine cleaned to enable their use by the site operatives.

The areas will be cleaned by Asbestos operatives with type H vacuum cleaners.

Once the areas are fully cleaned they will be offered up for inspection and air monitoring undertaken by the Site Analyst.

The offices will only be returned for normal occupation after confirmation of test results by the Site Analyst

Zone 2 Equipment for Decontamination

The initial decontamination process of the on-site Mechanical Excavator will be undertaken by operatives utilising the afore mentioned RPE and PPE.

The Cab of the machine will be thoroughly cleaned by means of vacuuming with HEPA Filter Vacuum Units.

Where required Scrapers and Tac-Rags will be used to removed Heavy Residue.

During the decontamination works an operative will be fitted with a Personal Air Monitor to establish the Ambient Fibre Levels within the work area and to Ensure that the Fibre Level within the work area does not exceed the Protection Factor of the Respiratory Protection Equipment.

Once the areas are fully cleaned they will be offered up for inspection and air monitoring by the Site Analyst.

The Excavator will only be returned for normal use after confirmation of test results by the Site Analyst

Zone 2A Temporary area for storage of clean FIBC bags (show on drawing)

While excavation works are ongoing in Phase 1 area to make adequate space for all returned material (estimated at 5000 tonnes), temporary storage of clean FIBC bags of returned material will be undertaken at Zone 2A. This area will

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



be marshalled to ensure safe unloading of bags from Rilta trucks . Note the trucks will not be allowed to travel further than this area within the quarry until Phase 1 is prepared (approximately 7 days) and the access road inspected and cleaned.

The access road to the lower quarry will be closed off using a barrier and signage.
Bags will be inspected during off loading and should any leakage be noted a wash down system will be available and material re-bagged by Gravity trained operatives.

A record of all returned material will be maintained at the site office (see attached draft of record and chain of custody docket)

Bags will be transported as space becomes available in Phase 1. Transport will be undertaken by trained operatives. The vehicle used for transport will remain within the quarry until works are completed and will then be decontaminated.

It should be noted when and if a DISAP tanker is delivering material it will be allowed access to the lower quarry. The vehicle will be driven in Zone 3 and 4 by an operative trained in the use of appropriate FPP to an unloading area within Phase 1. Material will be unloaded in damp conditions using water sprayed from the onsite pond. Reassurance monitoring will be on-going during initial phases of this unloading procedure. Copies of this methodology and

Zone 3

This area is the nominated Transit route for the transport of all bagged waste materials delivered to site and on to disposal area Zone 5.

Prior to transport using the Transit route operatives will walk the route and carryout a visual inspection for ACM. Any suspect material will be handpicked from the surface of the route and bagged as contaminated waste.

Zone 4

This area will be used for the unloading of waste materials from trucks prior to being placed within zone 5 for disposal. Initially all unloading will be from a vehicle operated by Gravity trained operative.

Zone 5

This area is the nominated area for the final disposal of all contaminated waste materials. The area requires further excavation to facilitate storage of returned waste and safe offloading and storage. All required excavation works will be undertaken by trained Gravity operators using respirator and other PPE. As this is a quarry site, risks will be identified by the Quarry Health and Safety officer and an induction provided for operatives.

The work area will be clearly marked by spray paint to note the area which will be excavated

As the excavator removes soil from the noted area it will be stored around the dig area

Once bags are transported down form the temporary holding area in Zone 2A by tractor and trailer they will be unloaded by the excavator and chains and safely placed in the designated area in Zone 5 Note all such transport will be only undertaken by Gravity operatives.

This procedure will be repeated until all bags have returned to the quarry.

The Excavator will only be operated by an Asbestos Operative who holds current training documentation to allow him operate the equipment and to work with Asbestos Containing Materials.

The operative will, at agreed intervals, be required to wear a Personal Air Monitor while operating the excavator to ensure that Fibre levels within the Cab of the digger are within the Protection Factor of the Respiratory Equipment being worn.

Only Positive Pressure Powered Respirators shall be used by the operator during the operation of the excavator.

A Dehaco Nano Nebuliser system shall be installed adjacent to the work area to produce a fine water mist spray in the vicinity of the excavator.

Reassurance Air monitoring will be carried out through the duration of the works to determine the ambient Fibre Level around the excavator during any excavation work.












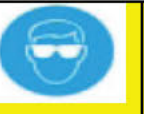

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow




	<p>The results on the air monitoring will be issued by the Site Analyst and any amendments that may be required to the method of operation will be agreed and implemented.</p> <p>A 360-degree Oscillating Water Cannon system shall be installed adjacent to the work area to produce a fine water mist spray in the vicinity of the excavator. Every effort will be made to prevent excessive volumes of water being applied to prevent run-off occurring.</p> <p>Emergency procedures are provided to comply with requirements in relation to operating with asbestos and operating within a quarry.</p> <p>Kilsaran emergency procedure in Ballinclare Quarry is that in the event of an incident/accident the following people are notified immediately Furse Whyte Quarry Manager 0860226414 Michael Mannion Quarry H&S Manager 0860267630 Doctor:040467367 Gardai:040446206</p> <p>The main priority in an emergency situation is to deal with any life-threatening situation, which could include the effects of a fire or injury to staff or members of the public. All work will cease immediately and the emergency addressed.</p> <p><u>Access to the Work area</u></p> <p>All personnel will be supplied with the appropriate PPE equipment as required under current Health & Safety Legislation. Operatives involved in site set-up and non- asbestos removal works will wear White Disposable type 5/6 overalls. All other areas will initial respirator zones until shown to be otherwise. Site Establishment will consist of a Mobile Decontamination unit located within a Safe/Clean area identified by the Site Analyst.</p> <p>Access to the work/contaminated area shall be via The Clean End of a three stage decontamination unit where operatives shall remove their clothing and dress in Red Disposal overalls and work boots. The operatives will pass through the Middle/Shower Section put on their Respirator before continuing to the Dirty End where they will exit and proceed to the work zone via the agreed Transit Route to the work area.</p> <p><u>Decontamination Procedures</u></p> <p>Operatives returning from the work area will Follow the Agreed and Identified Transit Route to the Decontamination Unit and enter the Dirty End of the unit. They will remove and bag their overalls as asbestos waste before entering the middle section of the unit where they will shower before removing their respirator. Once showered they will then pass through to the Clean End of the unit where they can then put on their street/clean overalls cloths before exiting the unit.</p> <p>Wheel Wash and Decontamination of transport vehicles leaving the quarry will be carried out in zone 2A as identified on the Map</p> <p>Until confidence in work protocols is reached , Daily Air Monitoring will be carried out on site by an Independent Analysis this will include: Background reassurance monitoring, personnel monitoring within the work zone and reassurance Air Monitoring within the Decontamination Unit.</p> <p>Trial Assessments – To determine suitability of excavation technique in Phase 1, trial testing will be undertaken by trained Gravity operatives using appropriate PPE and respirators. Reassurance monitoring will determine the suitability of the chosen methodology.</p>

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



Hazardous Substances: (Attach MSDS if required)	 Very Toxic	 Harmful/ Irritant	 Corrosive	 Dangerous For the environment	 Oxidizing	 Highly flammable	 Explosives
Applicable? No:	No	Yes	No	Yes	No	No	No
Storage Arrangements:	Designated areas in Zone 2A for drop off area and then waste will transported down to Zone 5 via tractor and trailer						
Details of Permits	N/A						
SWL's:	(Detail any limits on the loadings applicable to temporary plant/equipment or fixed elements of the structure where the work is taking place) All SWL will be detailed on all machinery certification which will be fully adhered to and issued to the client prior to commencement of works						
Required Personnel Protective Equip.:							Other: 1. Hi Vis Vest Yes 2. Overalls Type 5/6 Yes
	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	
YES/ NO	Yes	Yes	Yes	If required	No	Yes	Full face & ½ Mask P3 Filtered

<p>Emergency Procedures: Emergency procedures to be followed will be as per site rules. In the event of a fire, priority will be given to evacuating the work area by the quickest possible route. Staff will familiarise themselves with fire exit routes and location of firefighting equipment and first aid facilities prior to commencement of the asbestos survey. The main priority in an emergency situation is to deal with any life-threatening situation, which could include the effects of a fire or injury to staff or members of the public. All work will cease immediately and the emergency addressed.</p> <p>All Emergency Services: Dial 112</p>	<p>Gravity Construction Accident Reporting Protocol.</p> <p>All accidents and incidents will be advised to Gravity Construction Management & Kilsaran Management immediately to facilitate accident investigation and preservation of evidence. A copy of the Contractors investigation report on all accidents and incidents shall be provided to project Health & Safety officer on completion. Following any dangerous occurrences or accident, the relevant Office of the Health and Safety Authority or Local Authority will be informed.</p>				
 <p>First Aid Facilities:</p>	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Name of On-Site First Aider:</td> <td>Kilsaran Quarry, Co Wicklow [REDACTED]</td> </tr> <tr> <td>First Aid Box Location:</td> <td>Gravity Construction Site Vehicle</td> </tr> </table>	Name of On-Site First Aider:	Kilsaran Quarry, Co Wicklow [REDACTED]	First Aid Box Location:	Gravity Construction Site Vehicle
Name of On-Site First Aider:	Kilsaran Quarry, Co Wicklow [REDACTED]				
First Aid Box Location:	Gravity Construction Site Vehicle				

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



	Location of Nearest Hospital:	Loughlinstown, Dublin
Welfare Requirements	Decontamination Unit and Welfare facilities will be Supplied by Gravity Construction on site.	
Services to be supplied by Others	Waste Transportation C/O Rilta	
Other information & Comments	No	
Method Statement & Risk Assessment prepared by.	[REDACTED]	

Kilsaran Quarry Details. Site Manager: [REDACTED] Site Safety Officer: TBC Site First Aider: TBC	Contractor Details. Gravity Construction Ltd, Barntown, Wexford Contractor Manager: [REDACTED] Contractor Safety Officer: TBA Contractor First Aider: TBA
Health & Safety Authority - Head Office – 614 7000 - Info tel – 614 7024	Other

All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the company’s Health and Safety Policy. A site safety inspection will be carried out by us as directed by the site management team

RiskRating =Severity x Likelihood			
Potential severity	Very likely 3	Likely 2	Unlikely 1
Fatality or cause permanent disability 3	<u>9</u>	<u>6</u>	<u>3</u>
Serious injury 2	<u>6</u>	<u>4</u>	<u>2</u>

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



Require Medical attention 1	<u>3</u>	<u>2</u>	<u>1</u>
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RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



Location:	Kilsaran Quarry, Co. Wicklow	Duration:	TBA	Assessment by:	FM
Description:	Asbestos remediation works	Works by:	Gravity Construction	Date:	14th. June 2016

Activity/Hazard	Potential risks from these activities	Likely-hood	Sever-ity	Risk Rating	Controls Measures Required	By whom	Risk Rating after controls in place
		1-3	1-3	L x S			
Exposure to asbestos fibres during the removal and packaging of asbestos cement products	Exposure to asbestos fibres to removal operatives Exposure to asbestos fibres may lead to the following asbestos related diseases: <ul style="list-style-type: none"> ○ Asbestosis ○ Lung Cancer Mesothelioma	3	3	9	<ul style="list-style-type: none"> ○ Asbestos survey carried out to identify asbestos type and the risk of exposure ○ Provide all employees with training/information about the dangers of asbestos and the use of PPE ○ Do not use power tools on asbestos materials, as they create dust, use hand tools instead ○ The asbestos contaminated waste should be doubled bagged in 1,000-gauge polythene and FIBCs and temporarily stored on site in a dedicated waste storage area 	Site supervisor and all asbestos removal operatives	1
Manual Handling	Spinal Injuries, Hernias, Cuts, crushing of hands or fingers Injuries to toes and feet Various sprains, strains etc. Surveyors may be affected	3	2	6	All personnel involved in manual handling will wear safety shoes, and gloves as appropriate Avoid carrying awkward items up and down steps All operatives to have Manual Handling Training	Asbestos removal operatives	1
Slips, trips and falls	Falls can be fatal serious injury Surveyors and other site personnel may be affected	3	2	6	<ul style="list-style-type: none"> ○ Identify areas where levels change, e.g. slopes, ramps, steps/ stairs, unexpected holes, bumps, drainage channels ○ Identify mats and rugs – decorative or functional ○ Identify slippery surfaces ○ Identify poorly maintained, damaged floors ○ Identify trailing cables and hoses ○ Beware of oil or grease on plant room floors ○ Keep the working area cordoned, clean & tidy 	Asbestos removal operatives	1

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



Working at Quarry Face	Risk of Serious/fatal injury to driver due to fall of material onto the machine while working at the quarry face	1	3	9	<p>Safe systems of work to be adopted.</p> <ul style="list-style-type: none"> ○ Supervision. ○ Tool box talk ○ Only trained and authorized operators ○ Height of Face is controlled to a safe limit ○ Must not operate directly under quarry face 	Asbestos removal operatives Excavator Driver	1
Machine Access	Fall/Trip Injury	1	3	9	Access ladders and handrails provided and kept in good condition	Excavator drivers	1
Vehicle Collision	Personal Injury to driver	2	3	6	On site traffic management	Plant drivers	1
Operative Collison	Personal injury due to contact with machine	1	3	6	<p>High Viz vests / Full white overalls worn by all operatives</p> <p>Reversing beepers fitted to machines</p> <p>Two way radios used in plant where required</p>	Asbestos operatives and excavators operators	1
Excavating & stockpiling	Personal Injury to driver due to machine overturning	1	3	6	<p>The excavation areas will be clearly marked out and barriers erected also if the same is required</p> <p>When positioning yourself for work ensure that a safe retreat from potential face collapse is not compromised by obstacles or other mobile equipment.</p> <p>Keep tracks at 90 degrees to the face at all times and drive motors to the rear to allow for safe retreat</p>	Excavator drivers	1
GRAVITY CONSTRUCTION LTD.							

RAMS for Remediation works in Kilsaran Quarry, Ballinclare, Wicklow



From: [REDACTED]
To: [Jim.Fanning](mailto:Jim.Fanning@gravityconstruction.ie)
Cc: [REDACTED]@awnconsulting.com; [REDACTED]@kilsaran.ie; [REDACTED]@kilsaran.ie; [REDACTED]
Subject: RAMS for Remediation works on [REDACTED]'s property, Redcross, Wicklow
Date: 15 June 2016 13:14:42
Attachments: [Gravity - Method Statement & Risk Assessment for \[REDACTED\].Red Cross.doc](#)
[\[REDACTED\].Site set up, Redcross, Wicklow.pdf](#)

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] 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]



Barntown
Wexford
Ireland

Mob. [+353 \(0\) 87 \[REDACTED\]](tel:+353087[REDACTED])

Office 1890 111 222

Email [\[REDACTED\]@gravityconstruction.ie](mailto:[REDACTED]@gravityconstruction.ie)

Web www.gravityconstruction.ie

Asbestos Removal & Disposal / Land Remediation / Cladding & Re-Roofing / Steel Erecting & Rigging / ESB Pylons



Google

Kellys Ln
Kellys Ln

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow














Contractor Gravity Construction	Name: [REDACTED]	Address: Barnstown, Co. Wexford	Tel: 1890 111 222
			Fax: E-mail: info@gravityconstruction.ie
Project Name	Kilsaran Quarry		
Description of the Task/Activity	Removal & Disposal of Asbestos Materials and Contaminated Soil		
Legislation, Codes of Practice /standards Consulted:	Safety, Health & Welfare at Work Act 2005 – General Application Regulations 2007 Construction Regulations 2013 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010		
Site Address/Location:	[REDACTED] Redcross, Co. Wicklow	Start Date: 16 th June 2016	Finish Date: 17 th June 2016
			Weather & Conditions permitting
Personnel Involved	Name	Role/Trade	
	[REDACTED]	Contracts Manager	
	[REDACTED]	Supervisor	
	[REDACTED]	Asbestos removal / 360 operator	
	[REDACTED] Davy Morrissey	Asbestos removal / Tele operator Asbestos removal Asbestos removal Asbestos removal	
Site Supervisor:	[REDACTED]	Tel:	087 [REDACTED]
Safety Officer	TBA	Tel:	
Key Plant & Tools	Water/Surfactant Mist Spray Units 360° Excavator, Fork Truck/Teleporter Mobile Decontamination Unit Mobile Welfare Unit Harris Security Fencing Water Bowser / IBC's		
Key Materials	UN Approved FIBC asbestos waste bags 1000 Gauge Polythene/3" cloth tape/ red & clear asbestos waste sacks All PPE Equipment – type 5/6 coveralls, ½ face orinasal P3 respirator, safety boots, gloves. Asbestos warning signs/barrier tape		
Other Essential Equipment:	H.E.P.A. filtered Vacuums Hand tools, shovels etc. Bagging Hopper		
Specific Identified Residual Hazards: (or refer to the task specific risk assessment(s))	Asbestos Containing Materials and Contaminated Soil		


RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

<p>Specific Staff Training</p>	<p>Manual handling, Asbestos training, Safepass, Mask Face Fitting Training, 360 excavator, teleporter</p>
<p>Sequence of Operations:</p>	<p><u>General</u></p> <p>The Contracts Manager is to explain the full scope works and details of the plan of works to the supervisor.</p> <p>The supervisor is to read this POW (Plan of Works) and risk assessments to all operatives engaged in the project and if required afford them time to read these documents themselves. The supervisor is to ensure that all operatives engaged with this project sign and date the confirmation sheet located to back of this POW. This confirmation is a statement that they fully understand the project in hand, POW and risk assessment.</p> <p>The supervisor will carry out tool box talk on all relevant subjects prior to the project commencing.</p> <p><u>Site Establishment</u></p> <p>Reassurance Air Monitoring will be carried out by the Site Analyst prior to works commencing. No works shall commence until such time as the results of the air monitoring have been assessed and approval/permission has been given to by the Analyst to proceed. Reassurance Air Monitoring will continue on Site on a daily basis with particular attention given to Monitoring the at the Point of Bagging the Waste materials. At any time during the works the Methods and Procedures as set out may be altered or amended as recommended or by the Site Analyst. Any Variation in these Methods OR Procedures shall be Notified to the Health and Safety Authority in writing.</p> <p>Once on site, Gravity Operatives will set up a working area to enable safe access and egress for the operations crew. All necessary Security fencing will be erected to ensure sufficient area is allowed for site works and storage of bagged waste materials and only authorised personnel may enter. Signage will be displayed warning of the Hazardous nature of the materials being removed, the Restrictions upon those entering site and the Protective equipment to be worn while within the confined area.</p> <p>There are a total of 1 number separate enclosure located throughout the Farm.</p> <p>All personnel will be supplied with the appropriate PPE equipment as required under current Health & Safety Legislation. Operatives involved in site set-up and non- asbestos removal works will wear Disposable type 5/6 overalls. Site Establishment will consist of a Mobile Decontamination unit; Mobile Welfare Unit and Water Bowser located within a Safe/Clean area identified by the Site Analyst.</p> <p><u>Access to the Work area</u></p> <p>Access to the work/contaminated area shall be via The Clean End of a three stage decontamination unit where operatives shall remove their clothing and dress in Disposal overalls and work boots. The operatives will pass through the Middle/Shower Section put on their Respirator before continuing to the Dirty End where they will exit to the work area.</p> <p><u>Work Procedure</u></p> <p>A screened area will be constructed on individual sections of the Contaminated aggregate, this identify the area to be worked and allow for Mist Spray Walling systems to be attached to the framework. A Dehaco Nano Nebuliser system shall be employed to produce a fine water mist spray on the material as it is removed. An Airless Spray pump will be employed at the point of Bagging the material to the possibility of airborne dust. If Required Surfactant may be used in dense sections of the material prior to removing to contain dust levels as men equipment travel across the area. Every effort will be made to prevent excessive volumes of water being applied to prevent run-off occurring.</p>

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

	<p>The waste material will be extracted using a small loading mechanical digger. To prevent damage occurring the waste bags will be held on a fork lift/teleporter under a bagging hopper as the bags are filled.</p> <p>The bagged materials will be stored within a clean area as identified by the Site Analyst on top of polythene sheeting prior to shipment for disposal.</p> <p>Once the site has been cleared of the waste and contaminated materials, the area will be offered up to the site analyst for inspection and testing.</p> <p><u>Decontamination Procedures</u></p> <p>Operatives returning from the work area will enter the Dirty End of the decontamination unit. They will remove and bag their overalls as asbestos waste before entering the middle section of the unit where they will shower before removing their respirator.</p> <p>Once showered they will then pass through to the Clean End of the unit where they can then put on their street cloths before exiting the unit.</p> <p><u>Completion of the Works</u></p> <p>Upon receiving approval from the analyst the bags containing the waste materials will be mist sprayed to ensure any residual dust is removed from the outside of the bags prior to being removed from site for safe disposal.</p> <p>All plant equipment and tools used during the removal operations will be placed on polythene sheeting for decontamination with the water/surfactant prior to being moved off site.</p> <p>All polythene sheeting used during the segregation of the site and spraying of the waste bags and equipment shall be bagged as contaminated waste and disposed of along with other contaminated materials.</p> <p>Air Monitoring will be carried out within the Decontamination unit prior to disconnection and removal from site.</p> <p><u>Waste Disposal</u></p> <p>All bagged waste materials will be loaded onto curtain sided flatbed trucks by on site fork truck/teleporter for transportation to the Clients Site at Ballinclare Quarry, Co. Wicklow.</p> <p>Once the area has been passed as Asbestos Free all plant equipment and waste materials will be moved off site and the area returned for normal occupation.</p> <p><u>Air Monitoring</u></p> <p>Daily Air Monitoring will be carried out on site by an Independent Analysis this will include: Background reassurance monitoring, personnel monitoring within the work zone and reassurance Air Monitoring within the Decontamination Unit.</p>
<p>Method of Access and Egress to the work area:</p>	<p>(i.e. Ladders/MEWPS/Scaffold/Trestles/Step Ladder, etc.) N/A</p>
<p>Fall Protection Measures: (Where work at height cannot be eliminated – consider both Personnel &</p>	<p>(i.e. Guard Rails/Toe Boards/Brick Guard/Safety Harnesses/Exclusion Zones, etc.) N/A</p>

Materials.							
Hazardous Substances: (Attach MSDS if required)							
	Very Toxic	Harmful/ Irritant	Corrosive	Dangerous For the environment	Oxidizing	Highly flammable	Explosives
Applicable? No:	No	Yes	No	Yes	No	No	No
Storage Arrangements:	All asbestos waste will be removed from site at the end of the works. The waste is then transferred to our transfer station where it awaits shipping to Germany as agreed by HSA. The waste consignment note will then be sent and forwarded to the client once we receive the same.						
Details of Permits to Work:	N/A						
SWL's:	(Detail any limits on the loadings applicable to temporary plant/equipment or fixed elements of the structure where the work is taking place) All SWL will be detailed on all machinery certification which will be fully adhered to and issued to the client prior to commencement of works						
Required Personnel Protective Equip.:							Other: 1. Hi Vis Vest Yes 2. Overalls Type 5/6 Yes
	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	
YES/ NO	Yes	Yes	Yes	If required	No	Yes	Half face Orinasal P3 Mask

<p>Emergency Procedures: Emergency procedures to be followed will be as per site rules. In the event of a fire, priority will be given to evacuating the work area by the quickest possible route. Staff will familiarise themselves with fire exit routes and location of firefighting equipment and first aid facilities prior to commencement of the asbestos survey. The main priority in an emergency situation is to deal with any life-threatening situation, which could include the effects of a fire or injury to staff or members of the public. All work will cease immediately and the emergency addressed.</p> <p>_____</p> <p>All Emergency Services: Dial 112</p>	<p>Gravity Construction Accident Reporting Protocol.</p> <p>All accidents and incidents will be advised to Gravity Construction Management & Kilsaran Management immediately to facilitate accident investigation and preservation of evidence.</p> <p>A copy of the Contractors investigation report on all accidents and incidents shall be provided to project Health & Safety officer on completion.</p> <p>Following any dangerous occurrences or accident, the relevant Office of the Health and Safety Authority or Local Authority will be informed.</p>
	<p>First Aid Facilities:</p> <p>Name of On-Site First Aider: Red Cross, Co Wicklow</p>

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

	First Aid Box Location:	Gravity Construction Site Vehicle
	Location of Nearest Hospital:	Loughlinstown, Dublin
Welfare Requirements	Decontamination Unit and Welfare facilities will be Supplied by Gravity Construction on site.	
Services to be supplied by Others	Waste Transportation TBC	
Other information & Comments	No	
Method Statement & Risk Assessment prepared by.	[REDACTED]	

Kilsaran Quarry Details. Site Manager: [REDACTED] Site Safety Officer: TBC Site First Aider: TBC	Contractor Details. Gravity Construction Ltd, Barntown, Wexford Contractor Manager: [REDACTED] Contractor Safety Officer: TBA Contractor First Aider: TBA
Health & Safety Authority - Head Office – 614 7000 - Info tel – 614 7024	Other

All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the company's Health and Safety Policy. A site safety inspection will be carried out by us as directed by the site management team

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

RiskRating =Severity x Likelihood			
Potential severity	Very likely 3	Likely 2	Unlikely 1
Fatality or cause permanent disability 3	<u>9</u>	<u>6</u>	<u>3</u>
Serious injury 2	<u>6</u>	<u>4</u>	<u>2</u>
Require Medical attention 1	<u>3</u>	<u>2</u>	<u>1</u>

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

Location:	[REDACTED] Redcross, Co. Wicklow	Duration:	1 day	Assessment by:	PM
Description:	Asbestos removal and disposal works	Works by:	Gravity Construction	Date:	15 th June 2016

Activity/Hazard	Potential risks from these activities	Likely-hood	Sever-ity	Risk Rating	Controls Measures Required	By whom	Risk Rating after controls in place
		1-3	1-3	L x S			
Exposure to asbestos fibres during the removal and packaging of asbestos cement products	Exposure to asbestos fibres to removal operatives Exposure to asbestos fibres may lead to the following asbestos related diseases: <ul style="list-style-type: none"> ○ Asbestosis ○ Lung Cancer Mesothelioma	3	3	9	<ul style="list-style-type: none"> ○ Asbestos survey carried out to identify asbestos type and the risk of exposure ○ Provide all employees with training/information about the dangers of asbestos and the use of PPE ○ Do not use power tools on asbestos materials, as they create dust, use hand tools instead ○ The asbestos cement waste should be doubled bagged in 1,000-gauge polythene and FIBCs and temporarily stored on site in a dedicated waste storage area 	Site supervisor and all asbestos removal operatives	1
Working at height	Falls of persons Falls of materials Falling from heights can result in death or serious injury. Surveyors may be affected	3	3	9	<ul style="list-style-type: none"> ○ Always use adequate PPE ○ Ensure that there is a safe method of access and egress ○ Wear safety harness where necessary Use of scaffolding towers <ul style="list-style-type: none"> ○ Outriggers or stabilisers must be used ○ Towers must not be used on slopping surfaces ○ Towers should be tied to stable structures ○ Wheels must be locked when in used. ○ Area around tower to be cordoned off with tape 	Asbestos removal operatives	1
Manual Handling	Spinal Injuries, Hernias, Cuts, crushing of hands or fingers Injuries to toes and feet Various sprains, strains etc. Surveyors may be affected	3	2	6	All personnel involved in manual handling will wear safety shoes, and gloves as appropriate Avoid carrying awkward items up and down steps All operatives to have Manual Handling Training	Asbestos removal operatives	1

RAMS for Remediation works on [REDACTED] Red Cross, Wicklow

Slips, trips and falls	Falls can be fatal serious injury Surveyors and other site personnel may be affected	3	2	6	<ul style="list-style-type: none"> ○ Identify areas where levels change, e.g. slopes, ramps, steps/ stairs, unexpected holes, bumps, drainage channels ○ Identify mats and rugs – decorative or functional ○ Identify slippery surfaces ○ Identify poorly maintained, damaged floors ○ Identify trailing cables and hoses ○ Beware of oil or grease on plant room floors ○ Keep the working area cordoned, clean & tidy 	Asbestos removal operatives	1
Hand tools	Cuts, bruising and minor injuries.	3	1	3	<ul style="list-style-type: none"> ○ Safe systems of work to be adopted. ○ Supervision. ○ Tool box talk 	Asbestos removal operatives	1

From: [REDACTED]
To: [Jim Fanning](mailto:jim.fanning@hsa.ie)
Subject: RE: Quarry Methodology - availability for discussion
Date: 15 June 2016 12:54:29

Jim

Would you be available for a conversation this afternoon re the quarry methodology? We have added a more detailed assessment of the works and risks so I will send this on in the next hour. If available could you let me know what number I can contact you at.

Re customer sites. The status is :

[REDACTED] – complete and validation data was all clear

Ashford – complete waiting on soil data

Stepaside – should complete today

Glendale – ongoing

Carol Horgan – ongoing

Bags of material are being returned to the temporary containment area in the quarry.

Regards

From: Jim Fanning [mailto:jim_fanning@hsa.ie]
Sent: 14 June 2016 09:57
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Cc: Darren Arkins <darren_arkins@hsa.ie>
Subject: "Blue Book" : Method for determination of asbestos in soils - Draft

Hi [REDACTED]

As discussed yesterday evening, here is the latest draft, nearing completion, of “Blue Book” which was mentioned at conference last week. As you know, its distribution is restricted. However it may be helpful in providing context to the test results provided by Chemtest. I am assuming that the “Asbestos Identification” and “Asbestos by Gravimetry” tests carried out by Chemtest are essentially parts 1 & 2 of the 3 test method proposed by the Blue Book method. Perhaps this can be clarified.

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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From: [REDACTED] <[REDACTED]@awnconsulting.com>
Sent: 15 June 2016 10:07
To: Jim Fanning <jim_fanning@hsa.ie>
Cc: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Results for Kilsaran Quarry Ballinclare

Good morning Jim

The results from the ChemTest report, samples SS1 – SS6, do not correspond to the sampling sites from the figure as the sample numbers were just re-used.

The figure shows the main sampling done at the site whilst the ChemTest report shows the results from the samples taken around the face of the excavation where the crushers are located.

I hope this clarifies things.

Kind regards,

[REDACTED]

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

e: [REDACTED]@awnconsulting.com
[REDACTED]
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: 14 June 2016 17:37
To: [REDACTED] <[REDACTED]@awnconsulting.com>

Subject: RE: Results for Kilsaran Quarry Ballinclare

[REDACTED]
I presume then that you mean samples SS1,....SS6, as per your 1st attachment. Results here do not appear to correspond to SS1,SS6 as shown in separate map/legend (ie your final attachment).

Jim

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

Sent: 14 June 2016 17:28

To: Jim Fanning

Cc: [REDACTED] [REDACTED]

Subject: RE: Results for Kilsaran Quarry Ballinclare

Hi Jim

They should be the ones in the separate ChemTest report.

Regards,

[REDACTED]

AWN Consulting
The Tecpro Building
IDA Business and
Technology Park
Clonsaugh
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: 14 June 2016 17:16

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

Subject: RE: Results for Kilsaran Quarry Ballinclare

Hi [REDACTED]

I have been looking at the documents attached to your mail below. Could you clarify for me which docs/results refer to the dust samples from beneath the crushers.

Thanks

Jim

From: [REDACTED] [mailto:[REDACTED]@awnconsulting.com]

Sent: 13 June 2016 17:30

To: Jim Fanning

Cc: [REDACTED] [REDACTED]

Subject: Results for Kilsaran Quarry Ballinclare

Good afternoon Jim

Please find attached the soil sampling map for the quarry as well as the results from the dust samples taken beneath the crushers.

I have also attached details of the air sampling data analysed by IOM which are summarised in the table below (please note some results from the PDFs do not relate to the quarry site). [REDACTED] will send over the additional results from [REDACTED] later this evening.

IOM Air Asbestos Analysis Summary

Site Name	Sample ID	Sampling Location	IOM Analysis Contract No	Batch ID
Kilsaran Quarry Ballinclare	B1	Office	48698	B
	B2	next to green cabin, sw of site		
	B3	Quarry Floor NW of site		
	B4	High up NW of Site		
	I1	Opposite Ballinclare house	48769	I
	I2	330m SE of site entrance on road		
	I3	500 m NE of site entrance, receptor house		
	I4	NW of site boundary on road	48802	J
	J1	Quarry Entrance		
	J2	Coakley House, Back Wall of House		
	J3	Gate to Wicklow CoCo Depot	48818-1	K
	K7	Quarry Gate		
	K8	Opposite Ballinclare House Entrance	48830	M
	M6	Quarry Entrance		
	M7	Gate to Wicklow CoCo Depot		

Kind regards,



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

e:  awnconsulting.com

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From: [REDACTED]
To: [Jim Fanning](#)
Subject: FW: Personal air monitoring Cert No. 2 Stepside
Date: 14 June 2016 22:16:31
Attachments: [Personal air monitoring Cert No. 2 Stepside.pdf](#)

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: [REDACTED] <[REDACTED]@ieservices.ie>
Date: 14/06/2016 9:31 PM (GMT+00:00)
To: [REDACTED]@ieservices.ie
Subject: FW: Personal air monitoring Cert No. 2 Stepside

From: [REDACTED] [<mailto:asbestos@eircom.net>]
Sent: 14 June 2016 17:42
To: [REDACTED]
Cc: [REDACTED]@ieservices.ie; 'Deirdre Kelleher'
Subject: Personal air monitoring Cert No. 2 Stepside

Client:
AWN Consulting Ltd.
The Tecpro Building, Clonsaugh Business &
Technology Park, Dublin 17

Contractor:
IES
Rathcoole
Dublin

Site Address:
Stepaside Driving Range
Stepaside
Co. Dublin

Contact: [REDACTED]

Contact: [REDACTED]

Areas to be assessed:
Laneway to side of Driving Range

Scope of Works:
Removal of asbestos containing gravel/stone from
laneway.

Sampled on 14/06/16
Analyst: [REDACTED]
Lab location: Base

Type of Test	Reason for Test	Sample No.s	Purpose/Detail of Test
Personal	Compliance Monitoring	Jkf 160614 09/10	Personal air test to assess whether or not personal exposures of workers are in compliance with 4h/10 min control limit .
Monitoring	Respirator Assessment		Personal air test to assess the effectiveness of dust suppression measures and the suitability of respiratory protection during asbestos removal works.

SITE CONDITION AND MICROSCOPE SETUP

Date of counting	14/06/16	Field Blank (Y/N)	N/A	Flow rate correction (Y/N)	N/A
Phase annuli centred	YES	Microscope ID	JK001	Barometer ID	N/A
Graticule Diameter	100µm	Air pressure at site	N/A	Timer ID	TP001
Mic. Condenser centred	YES	Air press. at calib. site	N/A	Filter Batch No.	R4SA42516
No. of NPL blocks visible	5	Air temp at calibration site	N/A	Thermometer No.	N/A
Exposed filter diameter	22	Air temperature at site	N/A	Flow Meter No.	JK004

PERSONAL MONITORING TESTING & SAMPLING REPORT

Location	Sample Ref:	Samp. Head	Pump	Time on	Time off	Duration	Start/ Stop Flow (l/min)	Mean Flow (l/min)	Volume (litres)	Fibres	Fields	Result f/ml	Limit of Quantification
Konrad Kowalski	Jkf 160614 09	N	PP1	11.15	11.25	10	4l/m 4l/m	4 l/m	40	2 ½	100	0.03	0.24
Kris Kectwerski	Jkf 160614 10	E	PP1	12.10	12.20	10	4l/m 4l/m	4 l/m	40	1	100	0.01	0.24

Comments: Air test satisfactory. Work methods and control measures are safe and appropriate for the work being undertaken.

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,

From: [REDACTED]
To: [Jim Fanning](#)
Subject: FW: AWN_Stepaside Driving Range air test 140616
Date: 14 June 2016 22:15:53
Attachments: [AWN_Stepaside Driving Range air test 140616.pdf](#)

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: [REDACTED] <[REDACTED]@ieservices.ie>
Date: 14/06/2016 9:31 PM (GMT+00:00)
To: [REDACTED]@ieservices.ie
Subject: FW: AWN_Stepaside Driving Range air test 140616

From: [REDACTED] [<mailto:asbestos@eircom.net>]
Sent: 14 June 2016 17:42
To: [REDACTED]@awnconsulting.com
Cc: [REDACTED]@ieservices.ie; 'Deirdre Kelleher'
Subject: AWN_Stepaside Driving Range air test 140616

Client:
AWN Consulting Ltd.
The Tecpro Building, Clonsaugh
Business & Technology Park, Dublin 17

Contractor:
IES
Rathcoole
Dublin

Site Address:
Stepaside Driving Range
Stepaside
Co. Dublin

Contact: [REDACTED]

Contact: [REDACTED]

Areas to be assessed:
Laneway to side of Driving Range

Scope of Works:
Air monitoring during removal of
gravel from laneway.

Sampled & Tested on 14/06/16
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.
Background Test	During remedial work	Jkf 160614 01-4	Background test to ascertain the concentration of airborne respirable fibres during removal of asbestos containing materials.
	Following removal works		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 striling 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 * met the Clearance requirements of MDHS 29/4 and HSG248 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 NOT* detected in the following enclosure:</p> <p>N.B. <0.01 f/ml 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>

Diagram of sample positions (not to scale)



**Locations by Sample Head reference

SITE CONDITION AND MICROSCOPE SETUP	
Date of counting	14/06/16
Phase annuli centred	YES
Graticule Diameter	100µm
Mic. Condenser centred	YES
No. of NPL blocks visible	5
Exposed filter diameter	22
Field Blank (Y/N)	N/A
Microscope ID	JK001
Air pressure at site	N/A
Air press. at calib. site	N/A
Air temp at calibration site	N/A
Air temperature at site	N/A
Flow rate correction (Y/N)	N/A
Barometer ID	N/A
Timer ID	TP001
Filter Batch No.	R4SA42516
Thermometer No.	N/A
Flow Meter No.	JK002
Mobile / Site / Base	Base

Site Location: Stepside Driving Range, Co. Dublin

Background Air Test

Anal- yst	Location	Sample Ref:	Samp. Head	Pump	Time on	Time off	Duration	Start/ Stop Flow (l/min)	Average Flow (l/min)	Volume (litres)	Fibres	Fields	Result f/ml
JK	Lane by driving range	Jkf 160614 01	X	03	08.20	10.20	120	4l/m 4l/m	4l/m	500	0	200	<0.01
JK	Lane by driving range	Jkf 160614 02	A	10	08.20	10.20	120	4l/m 4l/m	4l/m	500	0	200	<0.01
JK	Lane by driving range	Jkf 160614 03	F	11	08.20	10.20	120	4l/m 4l/m	4l/m	500	2	200	<0.01
JK	Lane by driving range	Jkf 160614 04	K	08	08.20	10.20	120	4l/m 4l/m	4l/m	500	0	200	<0.01

Comments: Air test satisfactory. The measured respirable airborne fibre concentration was less than the clearance indicator of 0.01 f/ml of air. The gravel was sprayed with a Graco Airless Sprayer to contain dust during removal and bagging operations.

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.

Signed on behalf of About Safety Ltd.		Print Name	
Date of issue	14/06/16		

From: [REDACTED]
To: [Jim Fanning](#)
Subject: Quarry and two site methodologies
Date: 14 June 2016 17:43:40

[REDACTED] (Using a DISAP) is going to submit a methodology for Sea Road and James O Flynn tomorrow. I believe he is going to call you this afternoon to discuss the best methodology for disposing of the mater from the DISAP within Area A in the quarry. Just to note we are preparing a staged approach and risk assessment as required for the quarry and will have this with you in the morning.

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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J3	Gate to Wicklow CoCo Depot		
K7	Quarry Gate	48818-1	K
K8	Opposite Ballinclare House Entrance		
M6	Quarry Entrance	48830	M
M7	Gate to Wicklow CoCo Depot		

Kind regards,



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From: [REDACTED]
To: [Jim Fanning](mailto:Jim.Fanning@hsa.ie)
Cc: [REDACTED]
Subject: RE: Results for Kilsaran Quarry Ballinclare
Date: 14 June 2016 17:27:57

Hi Jim

They should be the ones in the separate ChemTest report.

Regards,

[REDACTED]

AWN Consulting
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From: Jim Fanning [mailto:jim_fanning@hsa.ie]
Sent: 14 June 2016 17:16
To: [REDACTED] <[REDACTED]@awnconsulting.com>
Subject: RE: Results for Kilsaran Quarry Ballinclare

Hi [REDACTED]

I have been looking at the documents attached to your mail below. Could you clarify for me which docs/results refer to the dust samples from beneath the crushers.

Thanks

Jim

From: [REDACTED] [mailto:[\[REDACTED\]@awnconsulting.com](mailto:[REDACTED]@awnconsulting.com)]
Sent: 13 June 2016 17:30
To: Jim Fanning
Cc: [REDACTED]
Subject: Results for Kilsaran Quarry Ballinclare

Good afternoon Jim

Please find attached the soil sampling map for the quarry as well as the results from the dust samples taken beneath the crushers.

I have also attached details of the air sampling data analysed by IOM which are summarised in the table below (please note some results from the PDFs do not relate to the quarry site). [REDACTED] will send over the additional results from [REDACTED] later this evening.

IOM Air Asbestos Analysis Summary

Site Name	Sample ID	Sampling Location	IOM Analysis Contract No	Batch ID
Kilsaran Quarry Ballinclare	B1	Office	48698	B
	B2	next to green cabin, sw of site		
	B3	Quarry Floor NW of site		
	B4	High up NW of Site		
	I1	Opposite Ballinclare house	48769	I
	I2	330m SE of site entrance on road		
	I3	500 m NE of site entrance, receptor house		
	I4	NW of site boundary on road		
	J1	Quarry Entrance	48802	J
	J2	Coakley House, Back Wall of House		
	J3	Gate to Wicklow CoCo Depot		
	K7	Quarry Gate	48818-1	K
	K8	Opposite Ballinclare House Entrance		
	M6	Quarry Entrance	48830	M
M7	Gate to Wicklow CoCo Depot			

Kind regards,

[REDACTED]

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