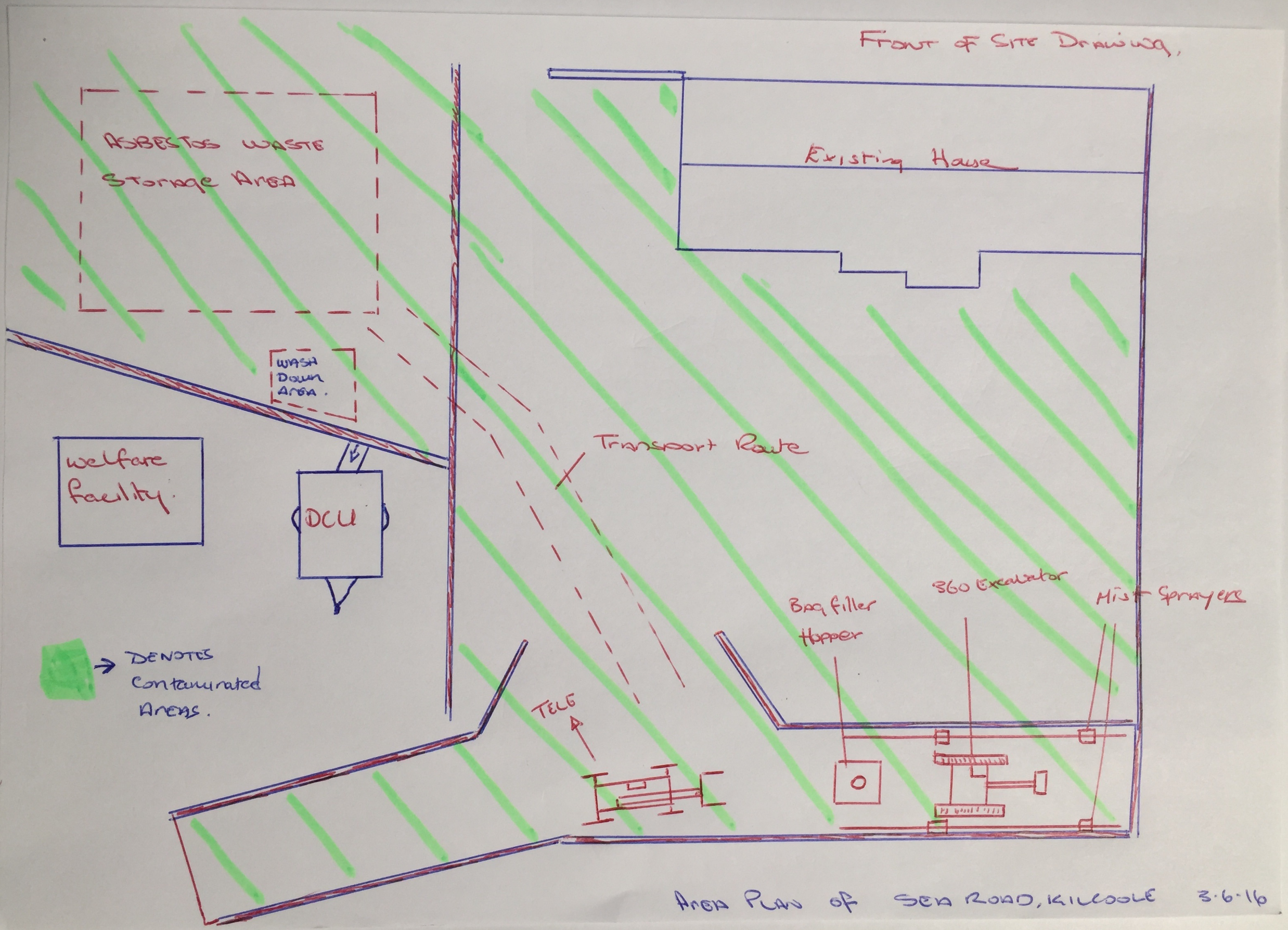


Area Plan of Sea Road, Kilcoole 3.6.16

RAMS for Remediation works @ Sea Road, Kilcoole, Wicklow

Contractor Gravity Construction	Name: [redacted]	**Address: Barntown, 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:	Sea Road, Kilcoole, Co. Wicklow	**Start Date:** **7th June 2016**	**Finish Date:** **28th. June 2016** **Weather & Conditions permitting**
Personnel Involved	**Name**	**Role/Trade**	
	[redacted]	Contracts Manager	
	[redacted]	Asbestos removal	
	[redacted]	Asbestos removal	
	[redacted] Paul Murphy [redacted]	Foreman Asbestos removal Asbestos removal	
Site Supervisor:	[redacted]	**Tel:**	087[redacted]
Safety Officer		**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		
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**		
Specific Staff	Manual handling, Asbestos awareness training, Safepass, Mask Face Fitting Training		

Training	
Sequence of Operations:	<u>General</u> The Contracts Manager is to explain the full scope works and details of the plan of works to the supervisor. The supervisor is to the 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. The supervisor will carry out tool box talk on all relevant subjects prior to the project commencing. <u>Site Establishment</u> 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. 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. 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. <u>Access to the Work area</u> 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. <u>Work Procedure</u> 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. 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.

	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. 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. <u>Decontamination Procedures</u> 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. 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. <u>Completion of the Works</u> 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. 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. 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. Air Monitoring will be carried out within the Decontamination unit prior to disconnection and removal from site. <u>Waste Disposal</u> 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 Ballynaclare Quarry, Co. Wicklow. 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. <u>Air Monitoring</u> 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.
Method of Access and Egress to the work area:	(i.e. Ladders/MEWPS/Scaffold/Trestles/Step Ladder, etc.) N/A
Fall Protection Measures: (Where work at height cannot be eliminated – consider both Personnel & Materials.	(i.e. Guard Rails/Toe Boards/Brick Guard/Safety Harnesses/Exclusion Zones, etc.) N/A

RAMS for Remediation works @ Sea Road, Kilcoole, 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:	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.:	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	Other: 1. Hi Vis Vest Yes 2. Overalls Type 5/6 Yes
YES/ NO	**Yes**	**Yes**	**Yes**	**If required**	**No**	**Yes**	Half face Orinasal P3 Mask

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.

All Emergency Services: Dial 112

Gravity Construction Accident Reporting Protocol.

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.

First Aid Facilities:	**Name of On-Site First Aider:**	Sea Road, Kilcoole, Co Wicklow
		Gravity Construction Site Vehicle

	First Aid Box Location:	
	Location of Nearest Hospital:	TBC
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

RiskRating =Severity x Likelihood

Potential severity	Very likely 3	Likely 2	Unlikely 1
Fatality or cause permanent disability 3	9	6	3
Serious injury 2	6	4	2
Require Medical attention 1	3	2	1

RAMS for Remediation works @ Sea Road, Kilcoole, Wicklow

Location:	Sea Road, Kilcoole, Co. Wicklow	**Duration:**	5-7 days	**Assessment by:**	FM
Description:	Asbestos removal and disposal works	**Works by:**	Gravity Construction	**Date:**	1ST. 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:** o **Asbestosis** o **Lung Cancer** **Mesothelioma**	**3**	**3**	**9**	o **Asbestos survey carried out to identify asbestos type and the risk of exposure** o **Provide all employees with training/information about the dangers of asbestos and the use of PPE** o **Do not use power tools on asbestos materials, as they create dust, use hand tools instead** o **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**	o **Always use adequate PPE** o **Ensure that there is a safe method of access and egress** o **Wear safety harness where necessary** **Use of scaffolding towers** o **Outriggers or stabilisers must be used** o **Towers must not be used on slopping surfaces** o **Towers should be tied to stable structures** o **Wheels must be locked when in used.** o **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**

Slips, trips and falls	**Falls can be fatal serious injury Surveyors and other site personnel may be affected**	**3**	**2**	**6**	○ **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**	○ **Safe systems of work to be adopted.** ○ **Supervision.** ○ **Tool box talk**	**Asbestos removal operatives**	**1**

Method Statement Briefing Record

Briefing delivered by: [redacted]

Position: [redacted]

Contractor: Gravity Construction Limited

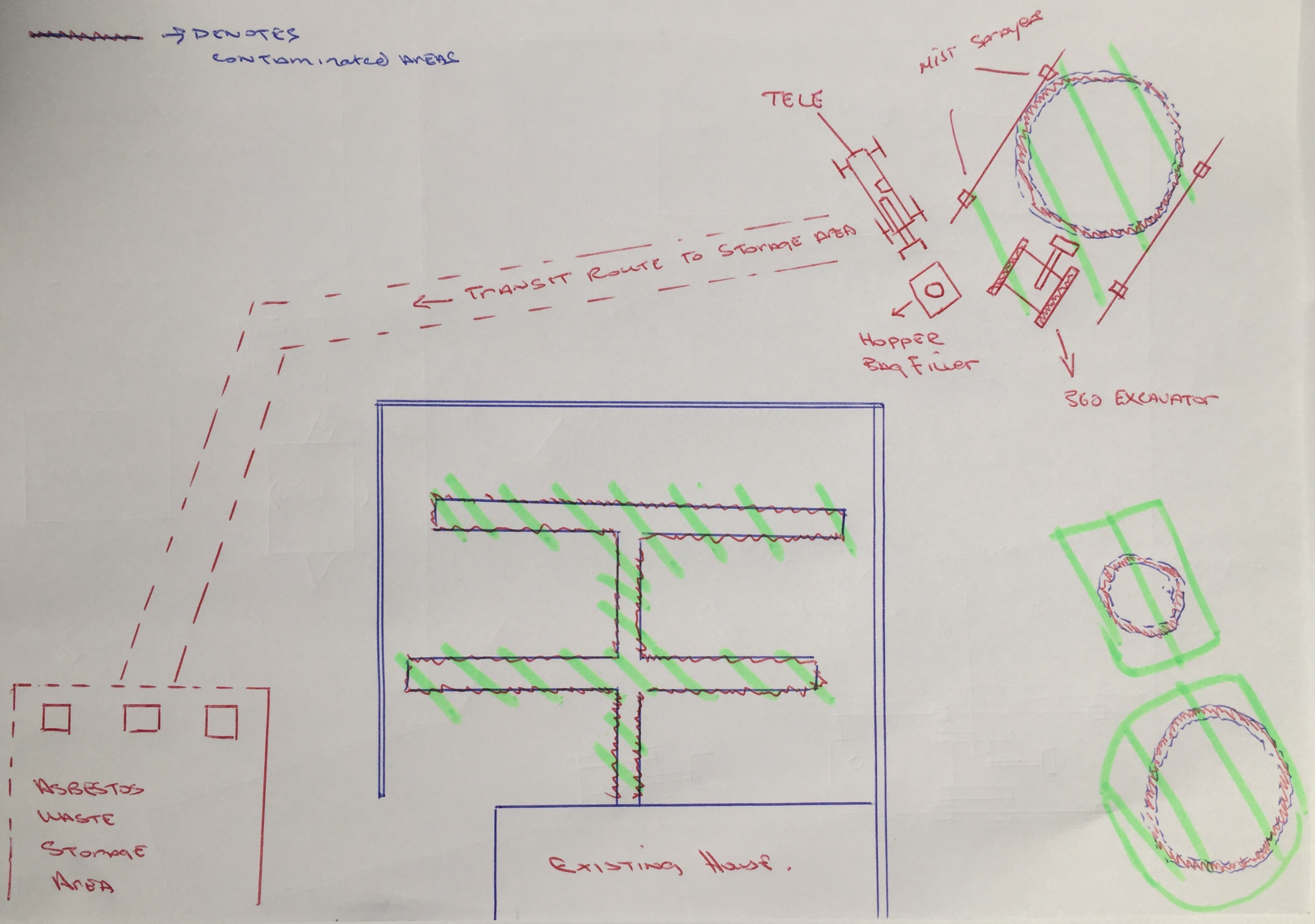
Site Name: Sea Road, Kilcoole, Co. Wicklow

Method Statement Title: Asbestos Removal Works

I (the undersigned) have had the contents of this site task and area specific method statement including risk assessment communicated to me and I agree to comply with all conditions and control measures detailed within. If the work activity changes or deviates from that originally scope, I will seek further advice and request an amended method statement.

Name (Print)	Signature	Date
[redacted]		

Please use extra sheet if required. Ensure all personnel involved in the works have signed off on the Method Statement.


DENOTES
contaminated AREAS
MIST Sprayer
TELE
TRANSIT ROUTE TO STORAGE AREA
HOPPER
BAG FILLER
360 EXCAVATOR
ASBESTOS
WASTE
STORAGE
AREA
EXISTING HOUSE.

From: Mark Ryan
To: Sharon McGuinness; Darren Arkins
Cc: Jim Fanning
Subject: FW: Ballinclare quarry
Date: 03 June 2016 14:41:37

For info, see below query just received. I will work up some material and send it on.

Mark

From: [redacted]irishtimes.com]
Sent: 03 June 2016 14:37
To: Press Office
Subject: Ballinclare quarry

Hi,
I understand an issue has arisen in relation to asbestos at this quarry in Co Wicklow. Could you please tell me what the HSA's awareness of this is and what actions have been taken to protect health.
Regards,
[redacted]

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Registration Number: 2514
Registered Office: 24-28 Tara St, Dublin 2

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From: Darren Arkins
To: Sharon McGuinness
Cc: Mark Ryan; Jim Fanning; Annette Slater; Brian Higgisson; Maura Kavanagh
Subject: Quarry incident
Date: 03 June 2016 11:25:00

Sharon,

I will give you a full update on the quarry situation on Tuesday. Jim and myself made two site visits this week to determine/discuss scope and methodology for remedial works with Kilsaran and their appointed consultants. We have also been in contact this week with Wicklow County Council (Michael Boland), EPA (David Flynn who reports to Gerard O Leary) and HSE public health director Dr Patricia McDonald regarding their involvement.

Remediation works have started this morning at one of the 10 affected sites (residential site at [redacted] Rathgar, Dublin) and we are reviewing another method statement this morning from one of the four removal contractors involved for a residential site in Kilcoole, Co Wicklow to start Tuesday. The estimate over 5000 tonnes to be brought back to quarry site under EPA permit.

Mark, Annette – the visible remediation works may or may not start to generate queries from the public or press.

Regards,
Darren

From: Jim Fanning
To: [redacted] awnconsulting.com
Subject: Email address correction
Date: 03 June 2016 09:28:59

Hi [redacted]
Just to be sure that I'm getting all intended emails, pls use address above (with underscore rather than dot).
Seems Gravity also have my address wrong.
Jim

From: Darren Arkins
To: Jim Fanning
Subject: FW: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow
Date: 03 June 2016 09:07:24
Attachments: 6 Sea Road (Net Project Management) - Appendix 1 Photos.pdf

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From: [redacted] [mailto:[redacted]awnconsulting.com]
Sent: 02 June 2016 22:08
To: [redacted] Darren Arkins; jim.fanning@hsa.ie
Cc: [redacted]
Subject: RE: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow

Hi
Attached is a photo of the Sea Road site before it was covered for reference.
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

View my LinkedIn profile

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AWN Consulting Limited registered in Ireland No. 319812

From: [redacted] [mailto:[redacted]gravityconstruction.ie]
Sent: 02 June 2016 21:27
To: darren_arkins@hsa.ie; jim.fanning@hsa.ie
Cc: [redacted] <[redacted]awnconsulting.com>
Subject: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow

Hi Darren/Jim

Further to our meeting with [redacted] & [redacted] this eve

They have asked me to forward you guys our preliminary Methodology and plan layouts for the Sea Road Project that Remediation works are due to commence on next week

These cover the majority of the works that are likely to be carried out throughout the duration off the works

On review of the above can you give us ([redacted] and I) a shout in the office ([redacted] in morn to discuss the same

Thank you guys

Kind regards,

[redacted]

[redacted]

Barntown
Wexford
Ireland

Mob. **+353 (0) 87** [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

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Site Reference	Sea Road (Net Project Management)
Location	Sea Road, Kilcoole, Co. Wicklow
Area affected	Construction site/ access areas
Sample Type	Soil, Air

View of front stone patio area

View of entrance area off access laneway

From: Darren Arkins
To: [redacted]
Cc: [redacted]awnconsulting.com; Jim Fanning
Subject: RE: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow
Date: 03 June 2016 09:04:40

Thanks [redacted],

Jim and myself will review shortly. Jim will revert to you with any queries.

Please note Jim's correct email address jim_fanning@hsa.ie

Regards,
Darren

From: [redacted] [mailto:[redacted]gravityconstruction.ie]
Sent: 02 June 2016 21:27
To: Darren Arkins; jim.fanning@hsa.ie
Cc: [redacted]awnconsulting.com
Subject: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow

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Thank you guys

Kind regards,

[redacted]

[redacted]

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