

From: [REDACTED]
To: [Jim Fanning](mailto:Jim.Fanning@awnconsulting.com)
Cc: [REDACTED] kilsaran.ie; [REDACTED] awnconsulting.com
Subject: RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow
Date: 16 June 2016 09:56:04
Attachments: [Gravity - Method Statement & Risk Assessment for New Road site @ Kilcoole, Wicklow.doc](#)
[Site layout for New Road, Kilcoole, Wicklow PDF.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 Envision's Site, New Road, Kilcoole, 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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Asbestos Removal & Disposal / Land Remediation / Cladding & Re-Roofing / Steel Erecting & Rigging / ESB Pylons

RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow

Contractor Gravity Construction	Name: [REDACTED]	Address: Barntown, Co. Wexford	Tel: 1890 111 222	
			Fax: E-mail: info@gravityconstruction.ie	
Project Name	Envision's, site, New Road, Kilcoole, Wicklow			
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:	New Road, Kilcoole, Co. Wicklow	Start Date: 17 th June 2016	Finish Date: TBA	
			Weather & Conditions permitting	
Personnel Involved	Name	Role/Trade		
	[REDACTED]	Contracts Manager		
	[REDACTED]	Supervisor		
	[REDACTED]	360 operator		
	[REDACTED] Paul Murphy	Tele operator Asbestos operative Asbestos operative Asbestos operative Asbestos operative		
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 Small Breaker			
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 Envision’s site, New Road, Kilcoole, 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>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/spray guns on low pressure 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.</p>


RAMS for Remediation works on Envision’s site, New Road, Kilcoole, Wicklow

	<p>Every effort will be made to prevent excessive volumes of water being applied to prevent run-off occurring.</p> <p>A small breaker may be required to remove some of the concrete pad to access the contaminated material, this material along with any steel and insulation will be removed from site prior to commencing works on the material in the sub floor, that waste material will then 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>This procedure will be repeated carefully until completion of the works</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</p>	<p>(i.e. Ladders/MEWPS/Scaffold/Trestles/Step Ladder, etc.) N/A</p>

RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow

work area:							
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						
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

RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow

<p>Emergency Procedures:</p> <p>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>First Aid Facilities:</p>	<p>Name of On-Site First Aider:</p>	<p>New Road, Kilcoole, Wicklow</p>
	<p>First Aid Box Location:</p>	<p>Gravity Construction Site Vehicle</p>
	<p>Location of Nearest Hospital:</p>	<p>Loughlinstown, Dublin</p>
<p>Welfare Requirements</p>	<p>Decontamination Unit and Welfare facilities will be Supplied by Gravity Construction on site.</p>	
<p>Services to be supplied by Others</p>	<p>Waste Transportation TBC</p>	
<p>Other information & Comments</p>	<p>No</p>	
<p>Method Statement & Risk Assessment prepared by.</p>	<p>_____</p>	

<p>Kilsaran Quarry Details.</p> <p>Site Manager: _____</p> <p>Site Safety Officer: TBC</p> <p>Site First Aider: TBC</p> <p>Health & Safety Authority</p> <p>- Head Office – 614 7000</p> <p>- Info tel – 614 7024</p>	<p>Contractor Details. Gravity Construction Ltd, Barntown, Wexford</p> <p>Contractor Manager: _____</p> <p>Contractor Safety Officer: TBA</p> <p>Contractor First Aider: TBA</p> <p>Other</p>
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RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow

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>
Require Medical attention 1	<u>3</u>	<u>2</u>	<u>1</u>

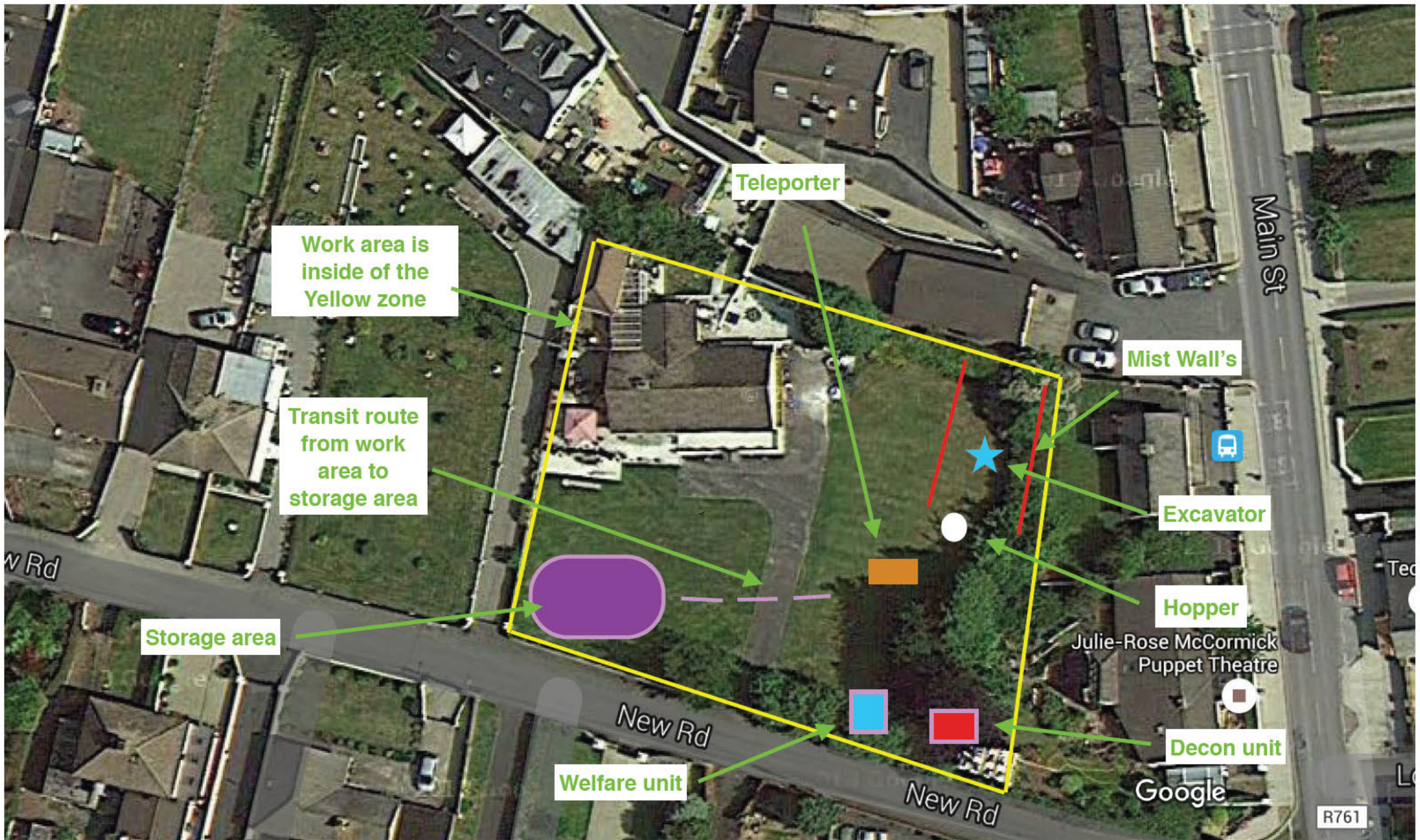
RAMS for Remediation works on Envision's site, New Road, Kilcoole, Wicklow

Location:	Envision Site, New Road, Wicklow	Duration:	3-4days	Assessment by:	PM
Description:	Asbestos removal and disposal works	Works by:	Gravity Construction	Date:	16 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 heights While using plant or loading trucks	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 ○ 	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 Envision's site, New Road, Kilcoole, 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



New Rd
Kilcoole

From: [Darren Arkins](#)
To: [Jim Fanning](#)
Subject: SR21 info
Date: 16 June 2016 09:53:15

Useful info on SR 21 Jim

<https://www.roadstone.ie/faq/sr-21-faq/>

From: [REDACTED]
To: [AsbestosNotif](#)
Subject: FW: Revised MS for Seagreen
Date: 15 June 2016 20:08:03
Attachments: [image001.png](#)
[image003.png](#)
[image004.png](#)
[Seagreen Greystones - Method Statement & Risk Assessment \(REV 1\).pdf](#)

Attached please find a copy of the revised method statement for Seagreen to show additional works for material beneath concrete sub floors to 8 incomplete houses on this site.

Regards,

[REDACTED]

Environmental Waste Technologies Limited
Unit W10 E
Toughers Business Park
Newhall
Naas
Co. Kildare

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Before printing this email, think if it is necessary to do it. Think Green.



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SITE SPECIFIC METHOD STATEMENT FOR THE REMOVAL OF ASBESTOS MATERIALS

CLIENT DETAILS

Kilsarn
Piercetown
Dunboyne
Co. Meath

Contact: Mr. [REDACTED]

Tel No. 086 - [REDACTED]

SITE DETAILS

Seagreen
Greystones
Co. Wicklow

Contact: Mr. [REDACTED]

Tel No. 086 - [REDACTED]

ASBESTOS CONSULTANT APPOINTED BY THE CLIENT

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

Contact: Ms. [REDACTED]

Tel No. 01 - [REDACTED]

ENFORCING AUTHORITIES

Health and Safety Authority
The Metropolitan Building,
James Joyce Street
Dublin 2

Contact: Health & Safety Unit

Tel No: 1890 - 289389

ASBESTOS REMOVAL WORKS CARRIED OUT BY

Environmental Waste Technologies Ltd
Unit W10 E Toughers Business Park
Newhall
Naas
Co. Kildare

Contact: Mr. [REDACTED]

Tel No: [REDACTED]



SCOPE OF WORK

Following an instruction from the client Environmental Waste Technologies Ltd has been engaged to carry out the safe removal & packaging of approximately 1,000,000 Kgs of asbestos contaminated fill used for preparatory ground works at a proposed residential building site. The material involved is between the concrete kerb and concrete footpath and is temporarily covered. There are also approximately 490 m² of non-contaminated sub flooring to be removed to access contaminated fill used beneath the radon barrier of each house foot print. These houses are not occupied and the majority are only at sub floor level. Our works will also include the complete environmental cleaning of the areas from which Environmental Waste Technologies has removed the asbestos contaminated materials.

EMERGENCY CONTACT NUMBERS

HEAD OFFICE:	██████████
FAX	045-409388
E-mail	info@ewt.ie
██████████	Mobile 086-██████████
██████████	Mobile 087-██████████
██████████	Mobile 085-██████████
██████████	Mobile 086-██████████

PREPAROTRY WORKS BY CLIENT PRIOR TOASBESTOS WORKS COMMENCING

1. Removal of all non-contaminated items and equipment from the work areas.
2. Supply of sufficient power and mains pressure water to service decontamination unit, work areas and all specialist plant for the duration of the contract.
3. Supply of location for a decontamination unit
4. Supply of location for a secure area for the storage of asbestos waste during the removal works.
5. To inform, identify & Isolate as necessary all ductwork, pipe work, electrical services and all hazardous energy & items within the works area.

ON SITE ASBESTOS TRAINED SUPERVISOR – ██████████

The Supervisor's role will be to ensure all work is carried out as outlined in this method statement and to check all plant and machinery is in working order prior to and during asbestos removal works. He will ensure that all operatives are aware of, and adhere to all relevant current Health and Safety Authority legislation documents and guidelines.

The on Site Supervisor has the authority to modify and edit this method statement if changes need to be made on site. Each change will be initialled and signed by the on-site supervisor.



TYPE & DURATION OF PROJECT

Proposed start date	Monday June 20 th 2016
Proposed finish date	Saturday July 29 th 2016
Number of employees to be utilised	5
Approximate quantity of asbestos	1,000,000 Kgs
Working Hours	7.00am – 4.00pm

TYPE & QUANTITY OF ASBESTOS

Number of samples taken	Not Known
Type of Asbestos	Actinolite
Form of Asbestos	Stone Pebbles & Rubble
Condition of Asbestos	Fair

CONTROL MEASURES TO BE APPLIED

Environmental Waste Technologies will adapt the following control measures:

- Reduction of exposure at source by the application of fibre suppression techniques using specialised misting systems specifically designed for dust suppression without causing a slurry effect.
- Water will be mixed with a specific asbestos knock down penetrant before spraying.
- Careful handling techniques.
- The use of Respiratory Protective Systems.

EXPECTED EXPOSURE LEVELS

For the purpose of this risk assessment and due to the fact that the asbestos materials are technically friable but the fibres are firmly bound to the matrix it is assumed due to previous experience verified by personal and background air testing that exposure levels due to the control measures employed will not exceed the action and control limits for Actinolite, amphibole and serpentine asbestos. The expected exposure, given the control methods selected for this removal procedure and based on previous experience of similar projects, is anticipated to be below the action level of 0.1fibres/cm³. All results to date have shown that there are little or no airborne fibres in the areas where work has previously taken place with the same material. Any fibres picked up have been minimal and well below permissible limits. Personal & background air monitoring will be carried out by the client's consultant to verify the exposure. Due to the asbestos materials concerned we will continue in keeping with best practice to use both Personal Protective Clothing and Respiratory Protective Equipment will be used and will be adequate for much higher than anticipated levels.

Given the control measures applied during the removal procedure it is not anticipated that any third party individuals will be exposed.



SPECIALIST EQUIPMENT & FACILITIES

DECONTAMINATION UNIT (DCU)

A self-contained hygiene unit (i.e. Decontamination Unit) complying with HSE Guidance note EH47. The unit is purpose built, consisting of three separate compartments: *a clean area, a shower area and a dirty area*. A self-closing door physically separates each compartment. Extract ventilation is provided which is designed to provide airflow from the clean end to the dirty end. In all other respects the unit conforms to the requirements of Guidance Note EH47 (*The provision, use and maintenance of hygiene facilities for work with asbestos insulation and coatings*).

Due to the works taking place without an enclosure the Decontamination Unit (DCU) will not be attached to the work area but will be placed as near as is practical to the work area of the to reduce transiting as much as is possible. This unit will be connected to power and water provided by the client. Water will be provided from a dedicated mains supply. Hot water & wastewater to & from the DCU is to be filtered into a foul drainage system, via a filtered water management system specifically manufactured & designed for such purposes.

FIBRE SUPPRESSANT TECHNIQUES

All asbestos materials will be sprayed via airless sprayer systems with a diluted dampstrip asbestos penetrant solution until saturated prior to and during removal & packaging. We will also be using a specialised watermistlers which are adjustable and can suppress contaminated dust without causing contaminated water slurry.

RESPIRATORY PROTECTIVE EQUIPMENT

Sundstrom Half Faced SR 100 Negative Pressure Respirators fitted with Particle Filter SR 510 P3R with an SR 221 Pre Filter with an actual protection value of 20 will be used during the works. Personal air monitoring results will be evaluated to ensure the correct RPE is being used.

PERSONAL PROTECTIVE CLOTHING

Microgard type 5 & 6 disposable overalls with elasticised hoods, cuffs and ankles. Coveralls to be used on site for the duration of the contract will be as follows:

- Work Area = Blue
- Other Areas = Blue

During removal works coveralls will be blue disposable coveralls with elasticised hoods, cuffs and ankles. These will be disposed of after each visit inside the live work enclosure, (see **Decontamination Procedures** further in this document). When transiting and during sheeting up and de-tenting procedures operatives will wear blue coveralls with elasticised hoods, cuffs and ankles.

MATERIAL SPECIFICATION

Polythene Sheeting	Heavy duty 1000 gauge
Adhesive Tape	50mm wide
Asbestos UN Bags	90 x 90 x 110CM+ Liner (70MY).

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OBJECTIVES

To remove asbestos in such a safe and secure manner so as to restrict fibre release during removal to an absolute minimum and to enable the operational area to be returned for normal occupation on completing of asbestos removal works.

WORK AREA CONSTRUCTION

This requires the formation of an effective restricted area between the designated asbestos work area and adjacent areas. The construction method shall be as follows:

- All non-contaminated fixtures fittings and fixed furniture are to be removed before any works commence, as far as is practicable. Any non-contaminated items, which cannot be reasonably removed will be sheeted over and protected from impact damage where necessary. This will be achieved by appropriate use of framework and plastic sheeting.
- The area will be restricted with Harris Safety Fencing with temporary screening and with appropriate signage which will restrict entry.

WARNING SIGNS

Warning Signs that clearly demonstrate that asbestos removal is being performed and that entry is restricted will be posted around the work area.

ENTRY TO THE WORK AREA

Access to the work area will be restricted to the following;

- Removal operatives and site supervisor.
- Health and Safety Authority Environmental Health Inspector.
- Asbestos removal consultant(s).

Before entering the work area approved persons must at a minimum:

- Put on type 5/6 coveralls and washable footwear.
- Put on an approved respirator.
- Put on safety gloves
- Enter the work area.

No person shall be admitted to the work area without an adequate medical certificate, insurance cover, protective clothing and respiratory protection equipment & certificates confirming that the person is fit to wear a respirator under asbestos conditions.

METHOD OF WORK

In areas where removal is taking place once the work area has been completed and deemed satisfactory by the supervisor removal works will begin, the contaminated material will be misted down with a combination of airless sprayers and misting machines and saturated with an asbestos penetrant prior to and continuously during removal avoiding any water slurry. The polythene covering the area will be peeled back approximately 1.5m at a time and the material will be mechanically dug and placed within approved UN bags using a specific bag jig so as to avoid spillage as much as is reasonably practical.

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Works to the sub floors of the houses are at various stages with some concreted and others not. Those that have been concreted have an additional 150 ml of solid insulation plus a 1000 gauge radon barrier covering the contaminated fill. This will allow for all works above the radon barrier to be treated as regular construction/ demolition works with all material above the radon barrier deemed to be regular construction waste and disposed of as same.

The concrete will be broken up using a large excavator equipped with a rock breaker, operated and maintained by an operator competent and trained to do so. Once the radon barrier is reached the area will be contained and treated as an asbestos work area as previously detailed in this method statement.

All contaminated waste & debris will be carefully placed in a UN Asbestos labelled and approved disposal bags and made ready for transport. Once gross removal of the asbestos containing materials has been completed, all surfaces will be wet raked so as to remove any asbestos residue that may remain. **The UN bags will be wet wiped and kept clean for transport.** Upon completion of these tasks the site supervisor will then conduct a visual examination of the work area. If the area is deemed satisfactory, he will then inform the client's representative who will conduct a further visual examination of the area. When satisfied that the work area is clean & asbestos free the work area will be deemed clean and broken down. Further soil samples maybe taken by the client's consultant to verify this

Asbestos removal will be undertaken by a team of trained operatives, one of whom will be posted outside the work enclosure to maintain the following;

- Provision of supplies.
- Function of plant and power supply.
- Liaison with the supervising officer.
- To prevent unauthorised access
- To act in the event of emergency.
- Secure and maintain the transit route

DECONTAMINATION PROCEDURES

The decontamination unit will be stocked with adequate supplies of soap, nailbrushes and towels. Operatives will proceed directly to the decontamination unit via the **restricted work area**. In the dirty area of the air lock they will remove boots, gloves and suits, their respirator will be removed and placed in a plastic bag for cleaning which will accompany the operatives as they proceed to the DCU, in the shower area. They will shower hair and body and clean their respirator thoroughly while wet and remove filters and place them in the container provided for their disposal, where possible, posting them back to the dirty end of the hygiene facility. Ensure that respirator face piece is clean both inside and out, after drying, place towels in bags for disposal pass through to the clean area and dress.

The transit route will have a designated operative to keep the transit route clear and to environmentally clean this route by wet wiping and hepa vacuuming immediately after each transit.

WASTE REMOVAL PROCEDURES

All asbestos waste will be handled in accordance with the statutory requirement of the waste management (hazardous waste) regulations 1998 (SI No.163 of 1998) and the European Communities (asbestos waste) regulations 1990 (SI No.30 of 1990), together with guidance note No. EH52 (removal techniques and associated waste handling for asbestos insulation, coating and insulation)

This report should be read in full & shall not be re-produced, modified, or copied in any form or by any means or used for any purpose other than its designated purpose, without the prior written approval of EWT Ltd.



DISPOSAL OF ASBESTOS WASTE

All asbestos waste will be placed in sealed UN bags and transported by a licensed carrier, to the following approved disposal site, approved as such by Wicklow County Council & the EPA under a section 55 waiver, for disposal as contaminated waste.

Kilsaran
Ballinclare Quarry
Co. Wicklow

SITE CLEARANCE

Environmental Waste Technologies Ltd. will not leave the site until the client is completely satisfied with the works.

EMERGENCY PROCEDURES

Emergency procedures to be followed will be as Environmental Waste Technologies Ltd., Asbestos Working Code of Practice. Following any dangerous occurrences or accident, the relevant office of the Health and Safety Authority or Local Authority will be informed. In the event of a fire, priority will be given to evacuating the work area by the quickest possible route. Operatives will familiarise themselves with fire exit routes and location of fire fighting equipment and first aid/hospital facilities prior to commencement of any works on site. Where inadequate facilities exist, they will be supplemented by equipment provided by Environmental Waste Technologies Ltd., commensurate with the nature and duration of works on site. Work enclosures will be constructed so as not to obstruct fire exit routes. In the event of a suspected escape of asbestos fibres, all works within the enclosed area must cease until the source is located and any remedial works and consequent decontamination completed and tested and deemed to be satisfactory so that no re-occurrence is possible before works can resume. The results of any such incident will then be recorded in the site log, including air test results. Suitable records of all incidents will be kept. In the case of elevated airborne fibre levels being recorded outside the enclosed area, all work will stop immediately. The enclosure will be inspected, and any leak or breach found will be immediately repaired, together with the clean up of any resulting contamination. Work will only resume when acceptable levels have been verified by the on-site consultant.

LOCAL EMERGENCY SERVICES

TELEPHONE NUMBERS

Greystones Garda Station	112 / 999
Loughlinstown Hospital	112 / 999
Fire Brigade	112 / 999

VISITORS TO SITE

Authorised visitors to the site will be directed to report their presence to the site supervisor or the client's representative to receive instruction regarding the layout of the work area(s) and to be advised which areas are inaccessible. No persons will be admitted to the work enclosure without authority from the client or Health and Safety Authority, together with the appropriate protective equipment and evidence of training in its use, plus valid appropriate medical certificate and insurance cover.