

METHOD STATEMENT, SAFE SYSTEM OF WORK PLAN AND RISK ASSESSMENT

Description: Detailed Sequencing of the execution at Sea Road,
Kilcoole, Co. Wicklow.

Job No: 3220

Date: 15-06-2016

Prepared by: [REDACTED]

Doc no. 3220 RAMS 001

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O'KELLYBROS
DEMOLITION & ENVIRONMENTAL
CONTRACTORS

B. Sea Road General Arrangement / Works Phases

Work Zone 1 highlighted in Yellow

Work Zone 2 highlighted in Grey

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



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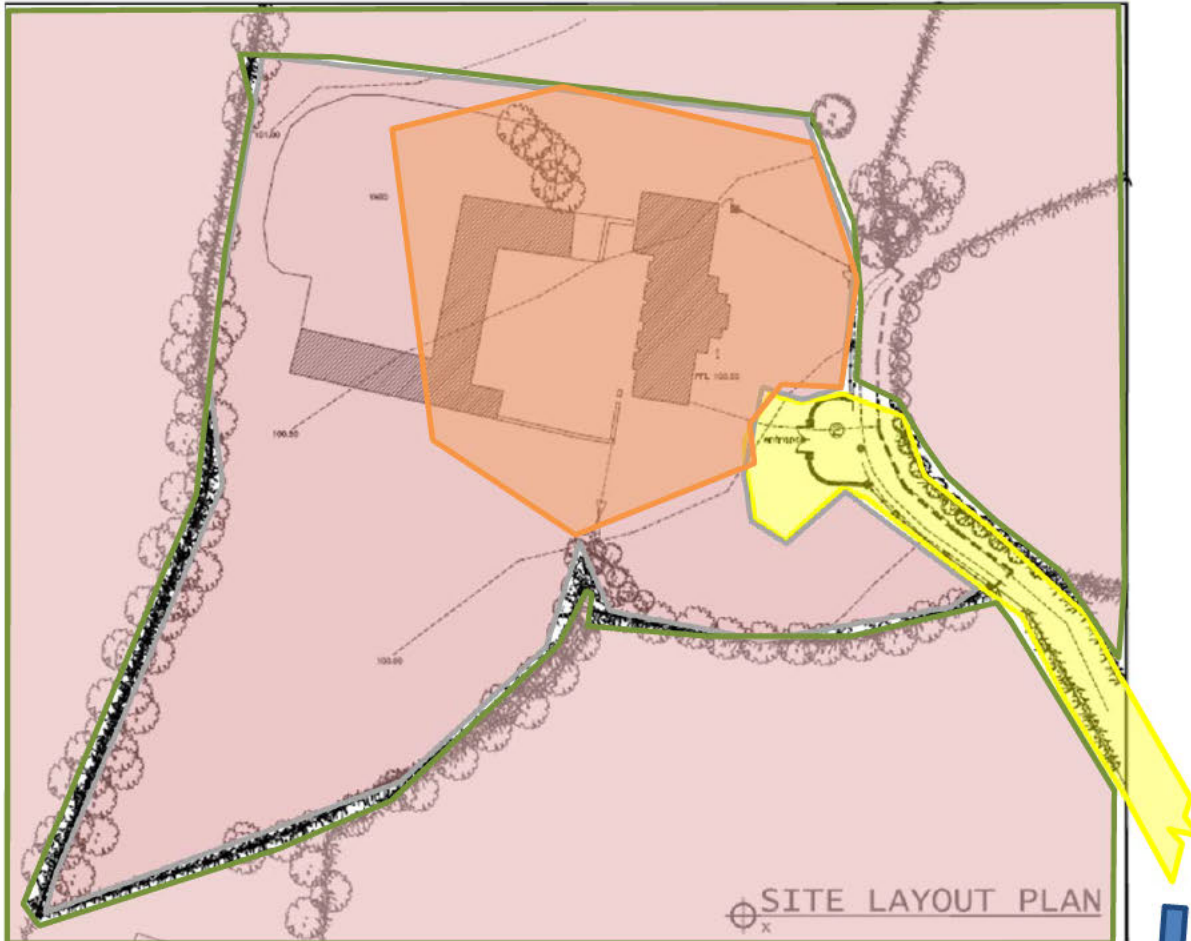
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Stage 1



Establish the following:

1. Site fencing.
 - a. Yellow lined area access works to provide for clean access to the site.
 - b. Remediation / environmental clean of the approach avenue.
 - c. Orange area is work area within the dwelling house site boundary.
2. Work zone demarcation guide.
 - a. Yellow Zone Enabling works (Active Work Zone)
 - b. Orange Zone area which contains pocket concentrated remediation works areas
 - c. Pink Zone is all areas outside of active work areas
 - d. Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.

Work Sequence

- The Yellow zone will be cleaned / remediated in line with the method statement commencing works at the road side and progressing to the dwelling entrance and continuing in approximately 20 feet in to the site.
- The yellow zone maybe be broken into 2 smaller zones and the decontamination equipment will be relocated as works progress to mitigate the potential for cross contamination of cleaned areas and also for programme/convenience purposes.
- All contaminants will be removed within this zone.
- Areas covered in polythene will be maintained until the sequence has been executed.
- Pavers will be removed as they are encountered and disposed of.
- Bedding materials, geotextiles and a cover layer beneath this (depth to be instructed) to be removed as a precaution/buffer layer. Similarly there will be a buffer layer removed under all stockpiles (depth to be instructed).
- Works will progress in this area until as satisfactory result is obtained by the analyst.
- Works will be overseen and directed by AWN Consulting.

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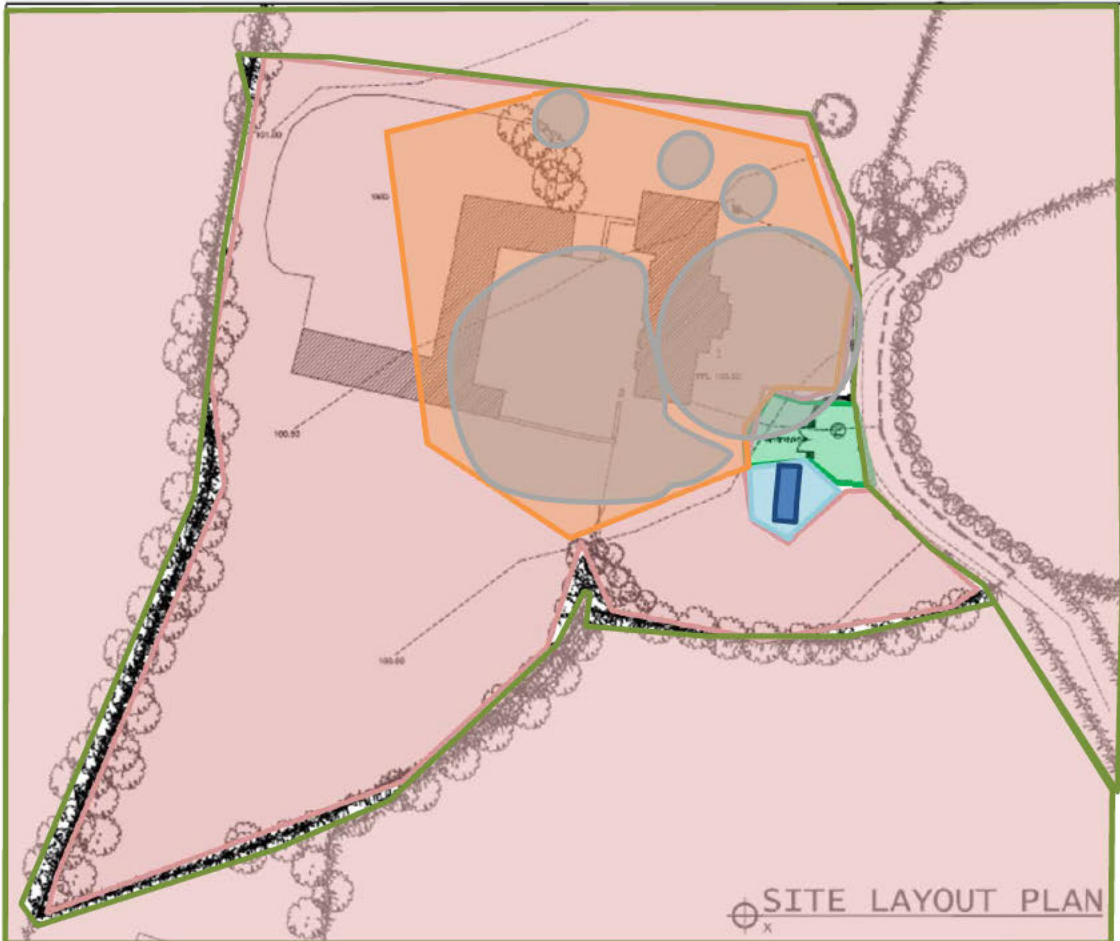
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Stage 2



Work zone demarcation guide.

- Orange Enabling works (Active Work Zone). This area is the active works zone where material with potential acm has been identified. Transit routes for waste / vehicles will be established within this zone.
- Grey Zones Concentrated Remediation works
- Pink Zone is all areas outside of these works
- Mild Green Zone is area safe zone utilised for execution.
- Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.

Work Sequence

- The Grey Zones will be eliminated 1 at a time and the exclusion reduced as the clearances are issued.

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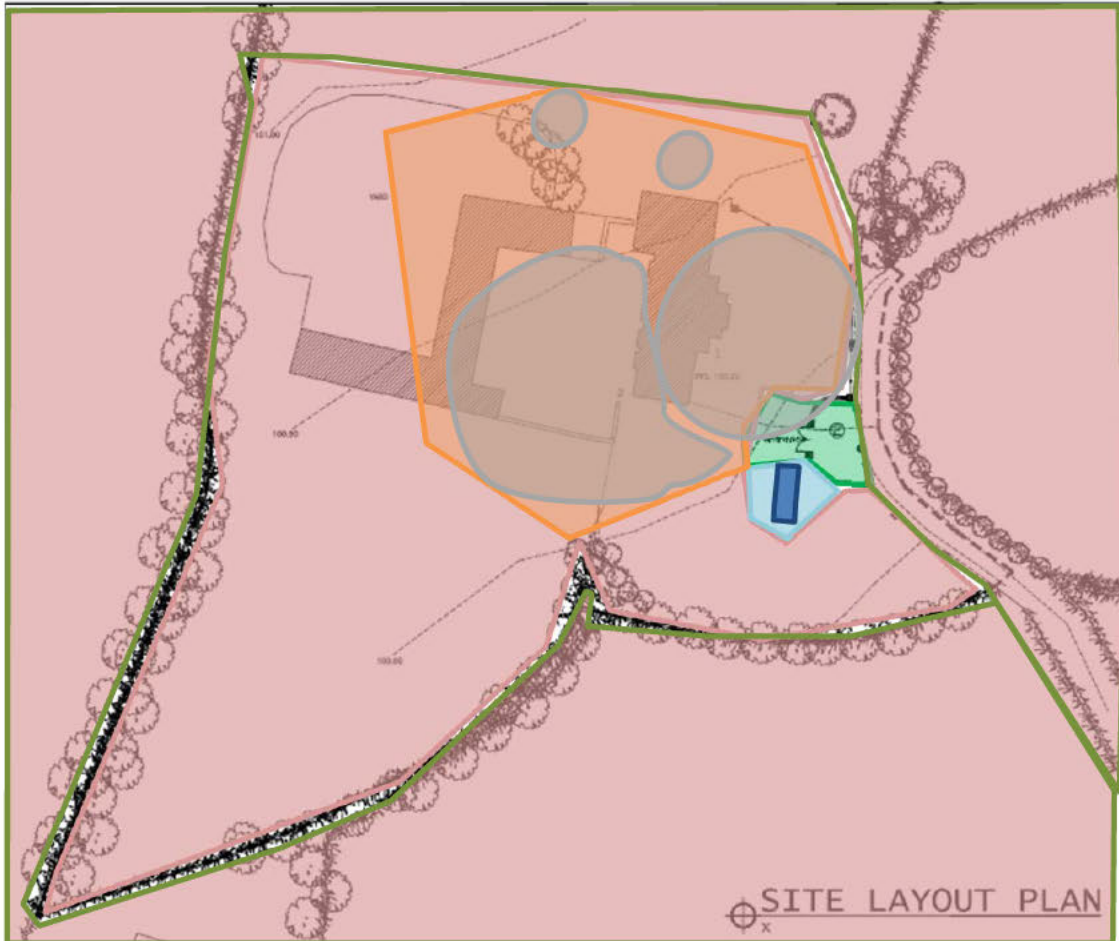
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Stage 3



Work zone demarcation guide.

- a. Orange Enabling works (Active Work Zone). This area is the active works zone where material with potential acm has been identified. Transit routes for waste / vehicles will be established within this zone.
- b. Grey Zones Concentrated Remediation works
- c. Pink Zone is all areas outside of these works
- d. Mild Green Zone is area safe zone utilised for execution.
- e. Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.
- f. Dark Green Zone is areas where works have been completed and deemed free of ACM's.

Work Sequence

- The Grey Zones will be eliminated 1 at a time and the exclusion reduced as the clearances are issued.

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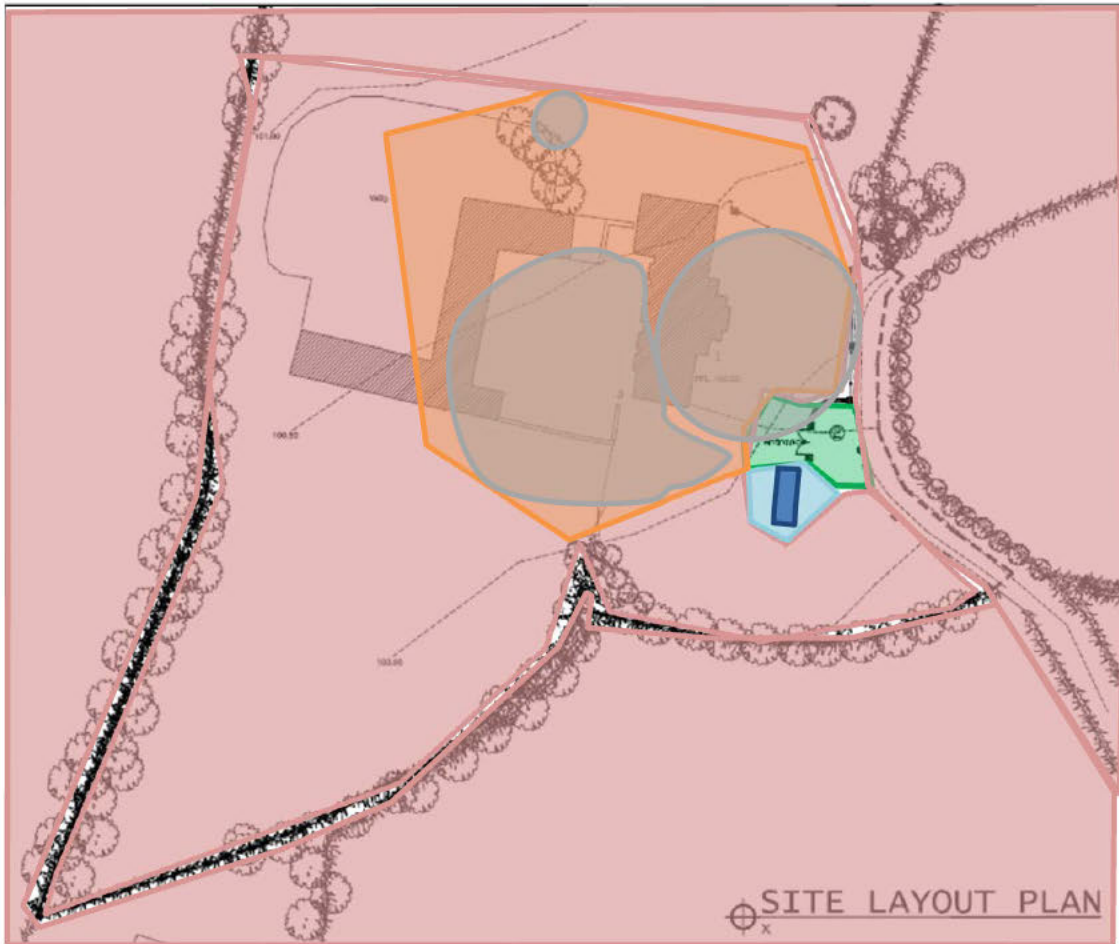
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Stage 4



Work zone demarcation guide.

- a. Orange Enabling works (Active Work Zone). This area is the active works zone where material with potential acm has been identified. Transit routes for waste / vehicles will be established within this zone.
- b. Grey Zones Concentrated Remediation works
- c. Pink Zone is all areas outside of these works
- d. Mild Green Zone is area safe zone utilised for execution.
- e. Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.
- f. Dark Green Zone is areas where works have been completed and deemed free of ACM's.
- i. .

Work Sequence

- The Grey Zones will be eliminated 1 at a time and the exclusion reduced as the clearances are issued.

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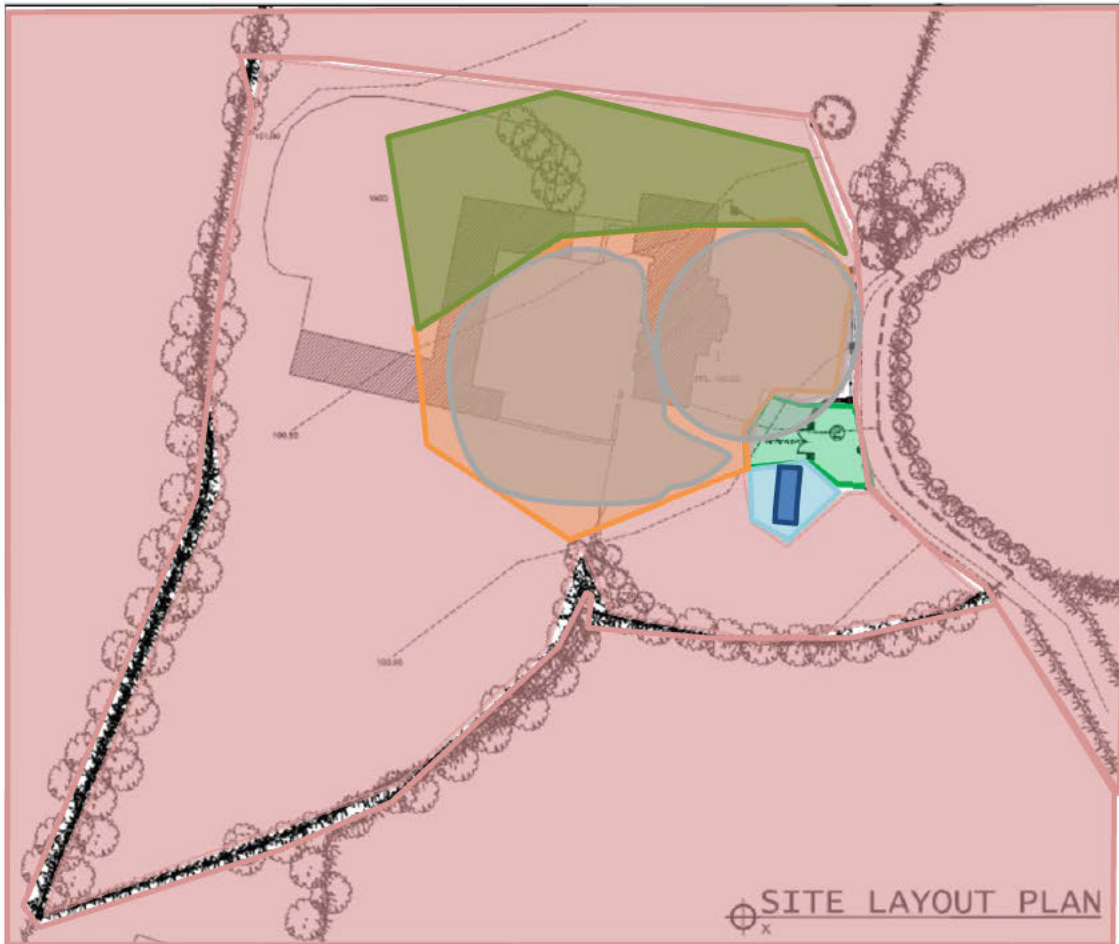
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Stage 5



Establish the following:

Work zone demarcation guide.

- Orange Enabling works (Active Work Zone) This area is the active works zone where material with potential acm has been identified. Transit routes for waste / vehicles will be established within this zone.
- Grey Zones Concentrated Remediation works
- Pink Zone is all areas outside of these works
- Mild Green Zone is area safe zone utilised for execution.
- Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.
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Work Sequence

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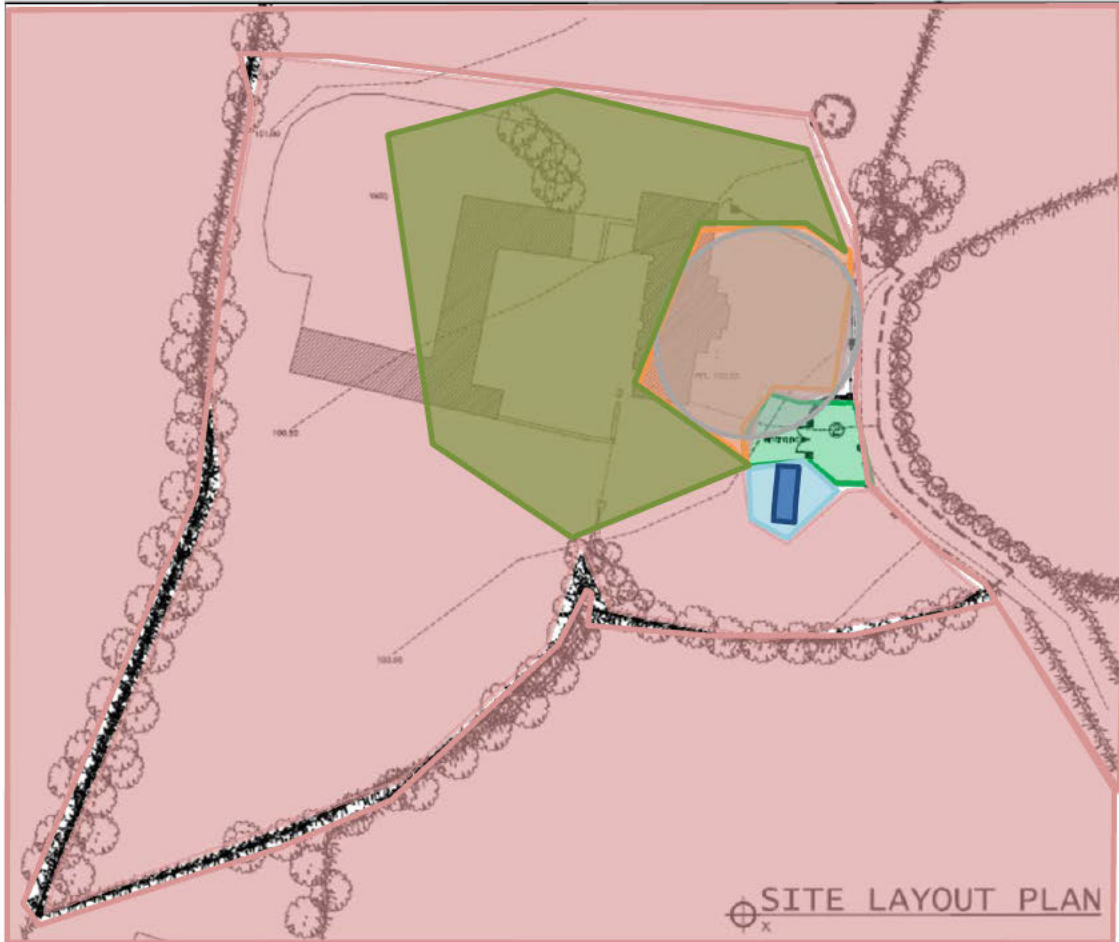
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Stage 6



2. Work zone demarcation guide.

- a. Orange Enabling works (Active Work Zone) This area is the active works zone where material with potential acm has been identified. Transit routes for waste / vehicles will be established within this zone.
- b. Grey Zones Concentrated Remediation works
- c. Pink Zone is all areas outside of these works
- d. Mild Green Zone is area safe zone utilised for execution.
- e. Blue Zone Welfare & Decontamination facilities established just inside Public road Interface.
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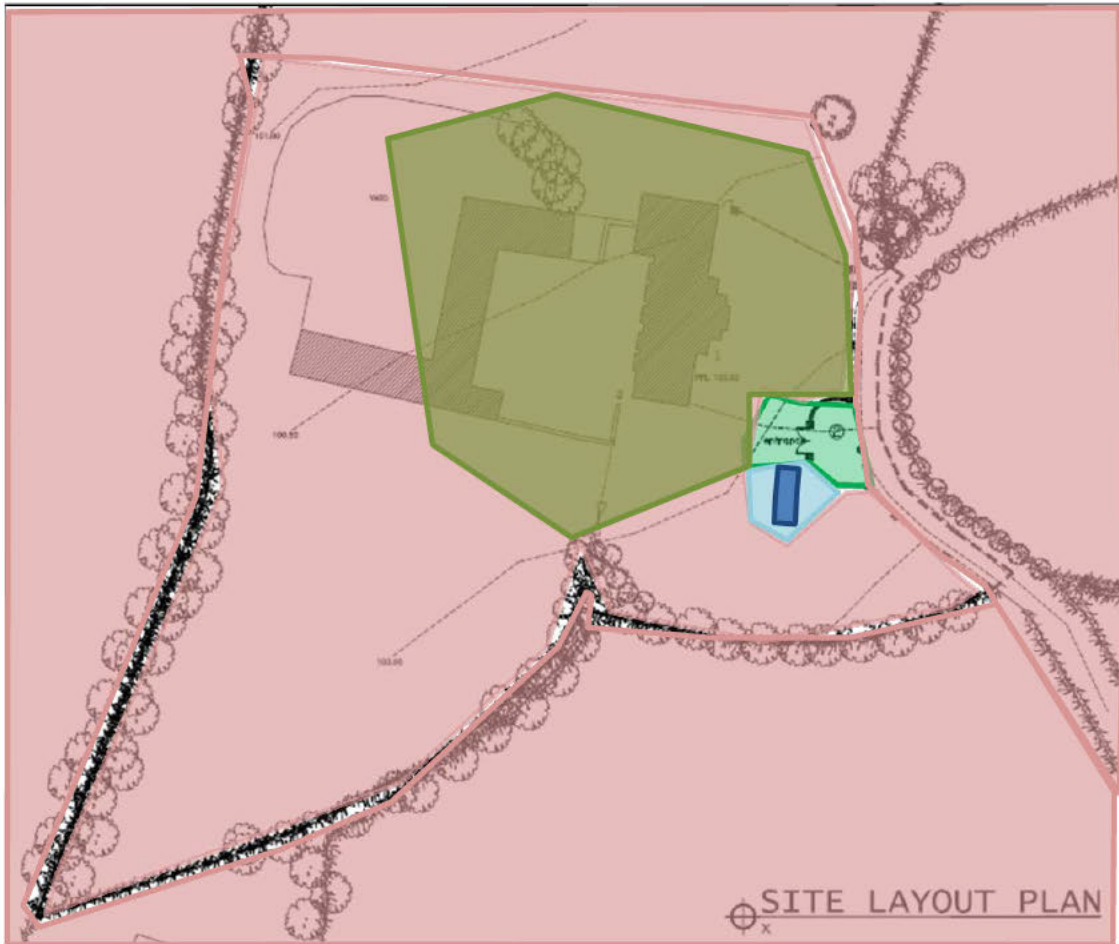
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Stage 7



Work zone demarcation guide.

- Pink Zone is all areas outside of these works
- Mild Green Zone is area safe zone utilised for execution.
- Blue Zone Welfare & Decontamination facilities established just inside public road Interface.
- Dark Green Zone is areas where works have been completed and deemed free of ACM's.

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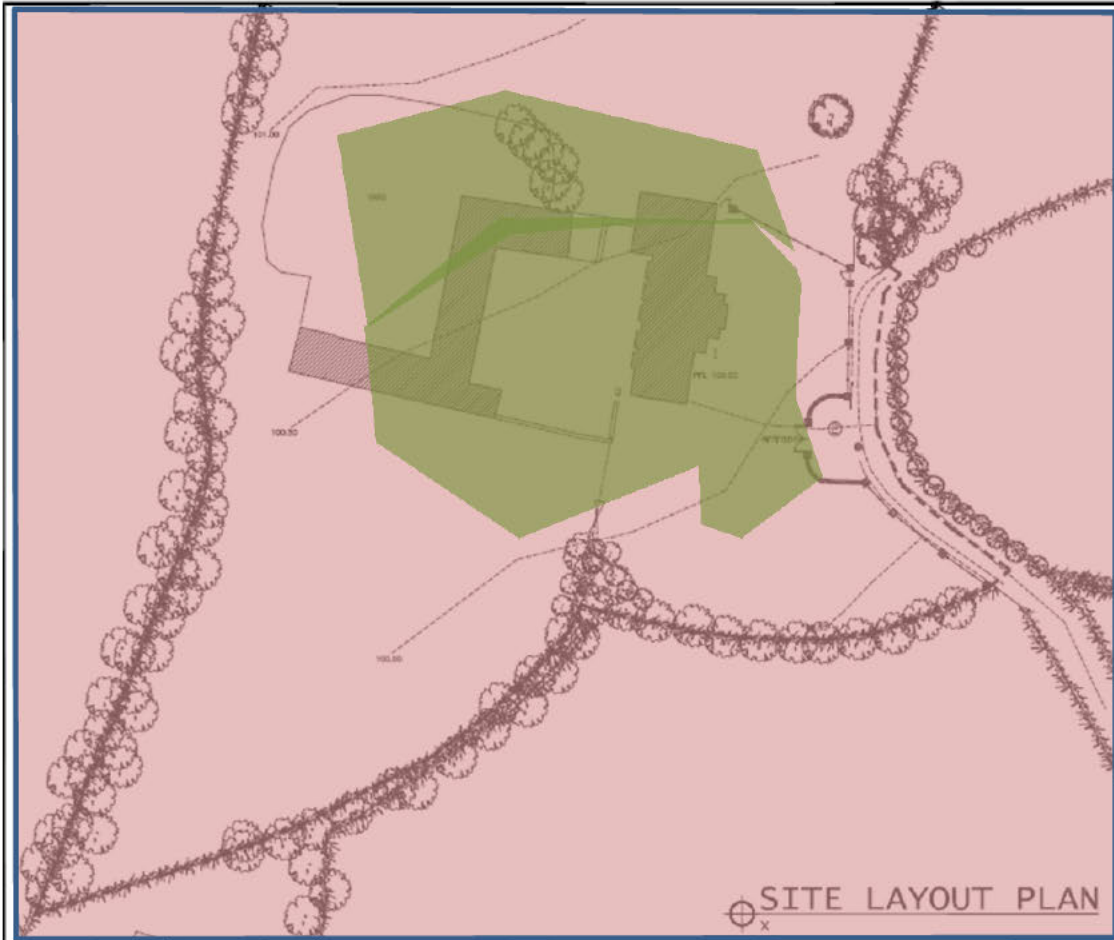
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Stage 8



Work zone demarcation guide.

- a. Green Zone is all areas and deemed clear and free of contamination.
- b. Welfare & Decontamination facilities removed from site.

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Toolbox talks Register

Explanation Covering:

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

Project: ACM removal


Topics covered in the above:

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

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

Signed.....

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

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

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

SITE:	Kilsaran Concrete Products,
ADDRESS:	Sea Road, Kilcoole Co. Wicklow.
Method Statement Ref No	3223 RAMS 001 160615
Print Name	
Date & Time <small>(24hr)</small>	
Signature	

METHOD STATEMENT, SAFE SYSTEM OF WORK PLAN AND RISK ASSESSMENT



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DEMOLITION & ENVIRONMENTAL
CONTRACTORS

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Job No: 3223
Date: 15-06-2016
Prepared by: [REDACTED]

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Co-ordination and Information

Client Kilsaran Concrete Products:
Main Contractor:
PSDP: TBC
PSCS: TBC
Sub Contractor: O'Kelly Bros

Contact: [REDACTED]
Contact: O'Kelly Bros
[REDACTED]

Description of and Sequence of Work

Location: Ballinclare Quarry Wicklow. **Commencement Date:** 16-06-16
EST Duration: 2 -3 weeks ()

Description of Work:

Deposition of ACM's in a predetermined cell or staging area.

Supervision

Supervisor / Foreman: [REDACTED] **Contact No:** 086-[REDACTED]

Supervisor checks: Compliance with site procedures.

<input checked="" type="checkbox"/> Fencing intact	<input checked="" type="checkbox"/> Works as per RAMS	<input checked="" type="checkbox"/> Noise/Dust Nuisance	<input checked="" type="checkbox"/> Personal Flotation Devices
<input checked="" type="checkbox"/> Equipment in GWO	<input checked="" type="checkbox"/> Fire Hydrant located & in-service	<input checked="" type="checkbox"/> Isolations inspected and shown to Ex Op	<input checked="" type="checkbox"/> T Mgt working ok
<input checked="" type="checkbox"/> Weather conditions	<input checked="" type="checkbox"/> Daily Inspection log	<input checked="" type="checkbox"/> Decontamination Equipment	<input checked="" type="checkbox"/> Specialised Dust Suppression Equipment

Sequence of Task –Pre-planning

Risk
Assessment/
Control
Ref No:

No:	<p>OVERVIEW <i>AWN to carry out Inspections, Air monitoring and Sampling direct appointment. Kilsaran Concrete Products – The Controlling Body O'Kelly Bros to carry out all ACM handling in relation to deposition to agreed area. (OKB)</i> <i>Main Contractor to carry out all attendances to both AWN and O'Kelly Bros during ACM operations</i></p> <p>Operational Sequence & Additional Control Measures</p>	
01	<p>Personnel will undergo Main Contractor / Kilsaran Concrete Products induction site induction and OKB site Specific induction before commencing work on site. Setup Isolations / route demarcation around the work area and the connecting routes. Setup localised decontamination area at tipping point. Self-contained waste stream decontamination wash room unit available for operatives to use..</p> <p>Reporting; Written Confirmation of formal notification to HSA for ACM will be available for inspection.</p>	
02	<p>AWN with O Kelly Bros to walk and observe area of works to ensure all know items of concern have been omitted from the designated area. There will be an official handover document that will allow for safe controlled transfer to the area. There will also be an addendum to this document which will detail the air monitoring procedures for the area.</p>	

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03	<p>Only Trained and Competent personnel must undertake the ACM operations. Operatives to be briefed on the method statements & risk assessments by the OKB management prior to any works commencing on site. Main Contractor will form part of this briefing as they will form part of the ACM support team.</p> <p>Inspection, Monitoring & Sampling by AWN will be in place prior to any works commencing so that there is a background check to confirm the readings of previous monitoring data. This will be in Place for the agreed period.</p>
04	<u>The material containing ACM will be transported off site by the following method:</u>
05	<p>The dust suppression system will take the form of 2 diesel driven pumps to apply water sourced from the quarry floor holding area. The pressured water will be delivered to the area using 2 x 2.5 inch fire mains. The capacity of each pumps is 400l/min. A mist will be created with 2 nozzles attached to the end of the delivery hoses. These nozzles will be directed to the point of discharge from the Vacuum Loader (truck). Their application and the volume of water delivered to the point will be adjusted to achieve maximum effect.</p>
06	<p>Tipping</p> <ol style="list-style-type: none"> 1. The dust suppression pumps will be turn on and the water sprays engaged. 2. The lorry will be manoeuvred in to a position just outside the tipping location. 3. The safety locks will be manually disengaged. 4. The lorry will back in to the tipping position where the operator will remotely operate the hydraulic locks and gradually tip the load. The operator will be positioned at the front of the lorry adjacent to the control unit. 5. The gradual release of the debris will ensure maximum saturation and minimum potential dust emissions. 6. The spray will be maintained on the lorry and materials until the lorry has closed the tail gate and manoeuvred away from the tipping position. 7. It will park in the decontaminating position and will be hosed down again as a precautionary decontamination measure. 8. The lorry will then be cleared to leave the area and proceed in line with existing site rules and procedures 9. The operators will locally decontaminate themselves and head to the decon unit before leaving site.
07	<p>When unloading these ACM materials, AWN will be Omni present on site and will carry out visual inspection and air monitoring during unloading of this material. All AWN and OKB operatives will wear ACM PPE during the process of removing the ACM. AWN will monitor to ensure safe levels are maintained and also provide direction in maintaining and ensuring safe levels</p>
8	

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17		
Notes During Work		
A	Air Monitoring will be ongoing by AWN independent analysisist on site. Using best practices all operations will be carried out under HSA guidelines on ACM safe removal	
B		
C		
D		
E		
F		



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Resources

Supervisors:	Plant:
[REDACTED]	Dust Suppression Equipment
[REDACTED]	
Personnel:	Material:
TBC	

Emergency Procedures Summary

FIRST AIDER	TBC	ASSEMBLY POINT LOCATION	Site Offices
FIRST AID EQUIPMENT LOCATED	Site Office	HOSPITAL NUMBER	
EMERGENCY CO-ORDINATOR	TBC	HOSPITAL ADDRESS	
FIRE FIGHTING EQUIPMENT	Extinguishers on site	OTHER PFD's Life Rings	On Site

Personal Protective Equipment

Plant Operator	  Outside Machine   
General Op	      Optional Life Ring where necessary 
Noisy Works	 <p>>85db / Unable to hear somebody at arms distance away</p>
Hot Works	   
Work at Heights	 <p>In addition to collection measures of fall protection such as Scaffold tower /Roof ladder</p>
ACM Removal	 BLUE    

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**METHOD STATEMENT, SAFE SYSTEM OF WORK PLAN
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Notes / Sketches

[Empty area for notes and sketches]

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RISK CONTROL PLAN –

Risk Rating before control measures: **192**

Activity Work: Tipping of ACM soil/stone

Foreseeable Risks (tick)

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

Risk Rating Envelope

High Risk = 130 – 450

Medium Risk = 60 – 89

Low Risk = 18 – 59

Substantial Risk = 90 – 129

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

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

Persons Exposed To Risk

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

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

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

Work Description (including location)

ACM removal

Existing Controls

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

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

Asbestos waste materials will be deposited in agreed location

Full onsite supervision by a competent person during removal works

Proper use of dust suppression

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

Appropriate signage will be erected at the entrances to the asbestos removal areas asbestos signage and associated dangers/ PPE to be worn this will be localised to the asbestos bagging areas so as not to create concern to the public outside the site boundaries.

Comprehensive background monitoring to take place

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Existing Controls (cont'd)

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

No persons are allowed to stand or work within the operating area of the Tipping truck without his knowledge

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

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

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

Additional Site Specific Controls to Reduce Risk

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RISK CONTROL PLAN

Risk Reduction Rating (after controls introduced) **48**

Severity Rating (A) 6 **Exposure Rating (B)** 4 **Exposure Probability Rating (C)** 4

Risk Rating Calculation Risk = 48 Low Risk

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

Monitoring Arrangements

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





































Supervisor Checks

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

Information, Instruction and Training

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

Personal Protective Equipment


Plant Operator	 	Outside Machine	  
General Op	     		 As & When required
Noisy Works		>85db / Unable to hear somebody at arms distance away	
Hot Works	   		
ACM Removal	 BLUE	   	
Other Applicable	   	  	      

Risk Assessment Review

Person completing the Risk Assessment [Redacted] Position Contracts Manager

Date of Risk Assessment 15/06/2016

Review date Ongoing

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Toolbox talks Register

Explanation Covering:

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

Project: ACM Deposition


Topics covered in the above:

NO:	Employer	Name	Signature
1.			
2.			
3.			
4.			
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10.			
11.			
12.			
13.			
14.			
15.			

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

Signed.....

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

METHOD STATEMENT, SAFE SYSTEM OF WORK PLAN AND RISK ASSESSMENT		 O'KELLYBROS <small>DEMOLITION & ENVIRONMENTAL CONTRACTORS</small>	
<u>Description:</u> Deposition of ACM material at Ballinclare Quarry, Co. Wicklow. <u>Job No:</u> 3223 <u>Date:</u> 15-06-2016 <u>Prepared by:</u> ██████████			REV 001
<u>Doc no.</u> 3223 RAMS 001			Page 11 of 11

**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,
ADDRESS:	Ballinclare Quarry, Wicklow.
Method Statement Ref No	3223 RAMS 001 160615
Print Name	
Date & Time (24hr)	
Signature	

From: [REDACTED]
To: [Jim Fanning](#)
Date: 17 June 2016 11:19:01
Attachments: [3220 RAMS 002 Sequencing of works at Sea Road Rev 03 160615.pdf](#)

Regards

[REDACTED]
Mobile + 353 87 [REDACTED]

O'Kelly Bros Ce. Ltd.
Demolition and Environmental Contractors.



METHOD STATEMENT, SAFE SYSTEM OF WORK PLAN AND RISK ASSESSMENT



O'KELLYBROS
DEMOLITION & ENVIRONMENTAL
CONTRACTORS

Description: Detailed Sequencing of the execution at Sea Road, Kilcoole, Co. Wicklow.

Job No: 3220

Date: 15-06-2016

Prepared by: [REDACTED]

Doc no. 3220 RAMS 001

REV
001

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Co-ordination and Information

Client Kilsaran Concrete Products:
Main Contractor: O'Kelly Bros
PSDP: O'Kelly Bros
PSCS: O'Kelly Bros
Air Monitoring / Analytical : AWN Consulting / [REDACTED]

Contact: [REDACTED]

Contact: O'Kelly Bros
[REDACTED]

Description of and Sequence of Work

Location: Sea Road, Kilcoole, Co. Wicklow.

Commencement Date: 16-06-16

EST Duration: 2 -3 weeks ()

Description of Work:

Remediation of ACM's in soil and stones.

Supervision

Supervisor / Foreman: [REDACTED] **Contact No:** 087-[REDACTED]

Supervisor checks: Compliance with site procedures.

<input checked="" type="checkbox"/>	Fencing intact	<input checked="" type="checkbox"/>	Works as per RAMS	<input checked="" type="checkbox"/>	Noise/Dust Nuisance	<input type="checkbox"/>	Personal Flotation Devices
<input checked="" type="checkbox"/>	Equipment in GWO	<input type="checkbox"/>	Fire Hydrant located & in-service	<input checked="" type="checkbox"/>	Isolations inspected and shown to Ex Op	<input checked="" type="checkbox"/>	T Mgt working ok
<input checked="" type="checkbox"/>	Weather conditions	<input checked="" type="checkbox"/>	Daily Inspection log	<input checked="" type="checkbox"/>	Decontamination Equipment	<input checked="" type="checkbox"/>	Specialised Dust Suppression Equipment

Sequence of Task –Pre-planning

Risk
Assessment/
Control

No: **OVERVIEW**
Independent Air Analyst appointed by Kilsaran to carry out Inspections. Kilsaran Concrete Products – The Controlling Body O'Kelly Bros to carry out all ACM handling in relation to removal / remediation to agreed area. (OKB)

Ref No:

Operational Sequence & Additional Control Measures

01	Fence the site and establish welfare & decontamination equipment. Setup Isolations / route demarcation around the work area and the connecting routes. Setup localised decontamination area at the work face. Self-contained waste stream decontamination wash room unit available for operatives to use. Reporting; Written Confirmation of formal notification to HSA for ACM will be available for inspection.	
02	AWN with O Kelly Bros to walk and confirm the area of works.	
03	Air monitoring points identified and air monitoring established on site. Inspection, Monitoring & Sampling by the Air Analyst will be in place prior to any works commencing so that there is a background check to confirm the readings of previous monitoring data.	

