



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

### Document Issue

Rev	Description of changes	Prepared by	Reviewed by	Approved by	Date
00	First issue	U Hannon	P. Scanlon & P. Brosnan	T. Croke	28/01/2022
01					
02					
<b>RAMS distribution list:</b>		IW, CCIL, RPS, Tertrarch (Citywest), All involved staff and workers			

### Table of Contents

Document Issue .....	1
1 – Planned Works .....	1
2 – People, Plant & Equipment .....	1
3 – Safe System/Method of Work .....	3
4 – Emergency Arrangements .....	9
5 – Reference Documents .....	10
Appendix A – Risk Assessments .....	11
Appendix B – Reference Documents .....	16
Appendix C – Consultation & Briefing Arrangements .....	16

### 1 – Planned Works

<b>Description of work:</b>	The planned works will involve the stripping of topsoil on the new site transportation of subgrade material from Saggart Reservoir to the site, build-up, and other ancillary works.		
<b>Location of work:</b>	Saggart Reservoir	<b>No. of workers:</b>	5
<b>Planned start date:</b>	February 2022	<b>Duration:</b>	8 weeks
<b>Interface with others/ known activities:</b>	Landowners, Planning Authorities, Nearby stakeholders		

### 2 – People, Plant & Equipment

<b>Contractor(s):</b>	Main Contractor- Coffey Construction Ltd
	Sub-Contractor- McGuire Haulage Ltd.



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

<b>Staff &amp; Supervision:</b>	<pre> graph TD     RD[Regional Director/ Area Manager Rory Donnelly] --- HS[Health &amp; Safety Paul Daly &amp; Paul Brosnan]     RD --- QA[QA/Environmental Gary Coffey]     RD --- PM[Project Manager Tony Croke]     RD --- CM[Construction Manager Pearse Scanlon]     RD --- COM[Commercial Sean McElligott]     RD --- DC[Design Coordinator Killian Spain]     PM --- PIC[Person In Charge PIC Padraig Morrissey &amp; Martin McGuire]     CM --- PIC     PIC --- SE[Site Engineer Seamus Conneely]           </pre>
<b>Labour:</b>	<ul style="list-style-type: none"> <li>- Foreman</li> <li>- 1No. Excavator Operatives</li> <li>- 1No. Bulldozer Operative</li> <li>- 1No. Skilled Operatives</li> <li>- 1no. General Operatives</li> </ul> <p><b>NOTE: Only trained and competent personnel will operate plant and machinery. They will possess a valid CSCS card for the relevant item of plant.</b></p>
<b>Plant:</b>	<ul style="list-style-type: none"> <li>- 38T Excavator</li> <li>- D6 Bulldozer</li> <li>- 10T Roller</li> <li>- Eight-Wheeler rigid tipper trucks</li> <li>- Artic tipper trucks</li> </ul>
<b>Equipment:</b>	<ul style="list-style-type: none"> <li>- PPE equipment</li> <li>- Hand Tools</li> </ul>
<b>Certification:</b>	<p>All relevant plant/equipment will be certified and checked prior to commencement on site: copies (hard/soft) of certificates will be kept on file.</p> <p>All relevant personnel will have their training certification checked before work commences at the project-specific induction.</p> <p>Prior to operation, climbers will check all equipment for excessive wear, damage, or defects before use.</p>
<b>Materials:</b>	<p>Silt fencing          Drainage stone          Signage          Bunting          Pedestrian Barriers          Heras Fencing</p>

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

### 3 – Safe System/Method of Work

#### Sequence of work:

##### General

All site personnel are to have received a site induction prior to any works commencing. This will be undertaken by the site engineer or his nominated representative. All must attend pre-start meeting and be briefed to this Method Statement.

The following documents will accompany this RAMS.

- Safe Plan of Action
- Relevant Permits – see section 3.

##### Site Location

The bulk of proposed earthworks will take place in the region highlighted below in Figure 1 in red. Access to the site is via an existing gateway. The site will be secured using Heras Fencing.



*Figure 1 - Area of Proposed Works, Hurleys field outlined in red. Coffey site outlined in Black.*

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

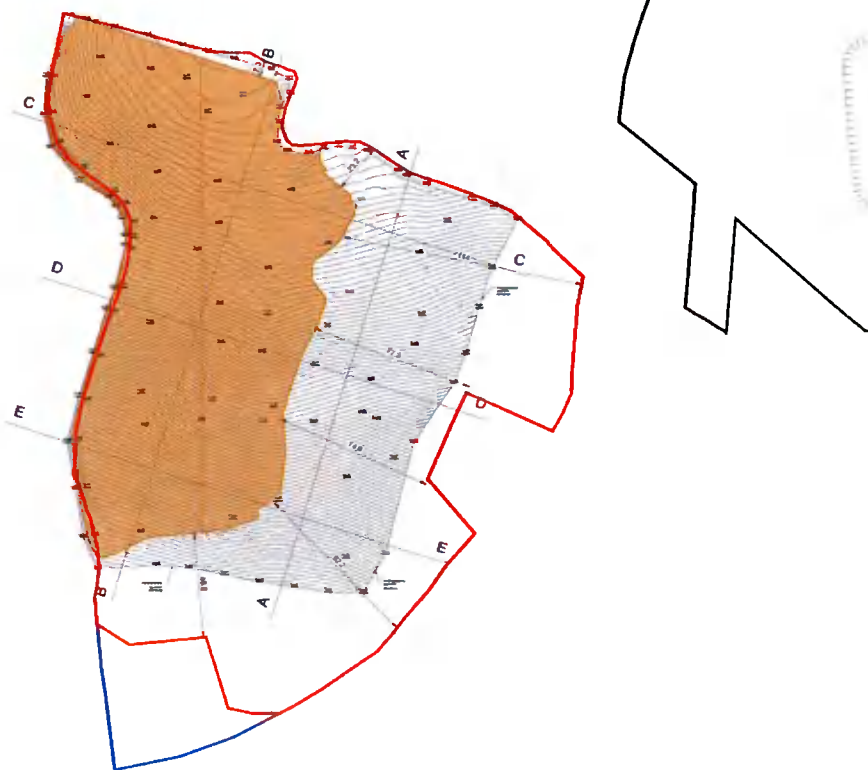


Figure 2 - Area of Fill shown in dark section of the above snip.

**Underground Services**

- Current utility drawings will be reviewed prior to the commencement of works.
- All identified services along proposed route of the pipe will be marked out, carefully protected and clearly marked as to be identifiable by workers.
- Machines MUST not be used 500mm from service (exclusion zone).
- Permit to Dig CF-HS-049(04) will be issued, briefed and signed by all personnel involved and used to notify employees of all known services in the dig area.
- Any Gas Mains will be identified & Exclusion zones setup around these Gas Mains, with no works taking place within 15m of a High-Pressure Gas Main.
- In the event of excavation or in the vent of excavation near known services the area will first be CAT scanned in the event of uncharted services being present, and all identified services are in the correct location. Services will be clearly marked on the ground using appropriate colour of spray paint:

- **RED** – Electric Power Lines
- **YELLOW** – Gas
- **BLUE** – Drinking Water
- **GREEN** – Sewer Lines



<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

- **WHITE** – Telecommunication and Signal Lines
- **LUMINESCENT PINK OR ORANGE** –Construction Colours
- o If uncharted service is encountered within vicinity of works, works **MUST** be stopped and reported to Site Management immediately.

**Topsoil Strip:**

- The field will be scanned for services prior to works commencing. A permit to dig will be completed and briefed to the Site Supervisor and Plant Operators highlighting any areas of concern (i.e., locations of onsite manhole chambers & services/utilities) by the site engineer.
- The extent of the site will be stripped of the topsoil.
- The topsoil strip is to be carried out using a 38-tonne excavator and D6 Bulldozer under site supervision
- Topsoil will be removed through placement of temporary ‘windrows’ at 3m heights to allow plant movement and ease of access until the material is removed to the bund.
- The topsoil will be stored in a sealed bund to ensure it is protected from the weather and segregated from the imported material.



Figure 3 Area in yellow is the locations of the topsoil bunds.

**Construction of Access Road:**

- A short access road will be constructed at the entrance (See Figure 4) once all topsoil is stripped from the entrance area, the 38-tonne excavator can commence ground cuts and excavate 0.3m deep and 6m wide for the proposed route as per the site layout plan. 6F2 stone capping and 2inch down stone will be utilised to create the construction haul route.

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

- This stone haul route will be built up in 2 layers of 0.150m, where each layer will be compacted adequately using a 10-tonne roller.

**Transportation and compaction of material:**

- 8 Wheeled tipper trucks will remove the subsoil from the Coffey’s Site.
- The trucks will follow the route shown in blue in figure 4 to Hurleys field.
- The material will be tipped in Hurleys field and spread using the D8 Bulldozer, the material will then be compacted using the 10-tonne roller in layers of 150mm.



*Figure 4 – Overview of route for transportation of material*

- The material will be built up to design level.
- An Engineer will be onsite providing and checking levels.
- The tipper trucks will follow the same blue route (Figure 4) to and from Coffey’s site.



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

### Reinstating the Field:

Once the imported material has reached the design levels the importation will stop. The compaction of the area will be completed.

The topsoil will then be spread out over the field using the D8 Bulldozer to the levels in an even layer.

The new area of topsoil will have any stones removed and then seeded.

Any stone placed at the entrance placed to facilitate the trucks will be removed and this area topsoiled and re-seeded.

All Construction fencing will be removed, the entrance will be left as it was before the works.

All plant operational movements are to be supervised by site foreman. All incidents must be reported to person in charge or Project manager immediately.

### **Environmental considerations:**

Any hazardous material on site e.g., petrol, diesel, will be securely contained in bunded tanks/containers and away from any watercourses. All excavators etc, on site will also have bunded tanks to prevent diesel spillage. Refuelling - A dedicated fuelling zone will be set up in a safe and secure place away from any waterways.

All works will be carried out in accordance with our project environmental plan and specifically as follows:

- Plant will comply with the Maintenance Plan, avoiding fumes, excessive fuel consumption and noise.
- Oil changes and plant maintenance on site will always be carried out on an impermeable surface/basin. Oil changes over unprotected soil will not be permitted.

Waste Management – All materials that are to be removed will be disposed of offsite safely and removed later once the main excavation works are taking place. Any timber will be stacked on site to be removed by Coffey's.

Pumping – All operations to take place in consultation with Inland Fisheries Ireland and control measures will be put in place to ensure environmental damage does not occur.

### **Quality controls:**

The management of Coffey Construction is conscious of the need to sustain and continuously improve the high quality of building and civil contracting services provided by the company and to ensure that all contractual requirements between the company and its clients will be consistently achieved. We provide documented assurance to clients to demonstrate that the specified requirements for the building and civil engineering works is being and has been achieved. It is the company's policy to seek to operate to these standards



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

continuously and to implement and operate fully the ISO 9001:2000 standards through registration and annual review.

It is the company's belief that, in striving to improve these high levels of building and civil engineering contracting services provided by the company, that it would meet the requirements of our customers and the industry.

Coffey Construction Ltd. is aware of both current legislation and public awareness as regards environmental issues. Our main priority is to minimise environmental effects in all their forms at the project site and its environs. To this end, we strive to reuse and recycle construction materials in so far as possible.

**Access and egress:** Access and egress to site works area will be carried out via the construction site access on Castle Rd.

Construction site access



**Distribution of materials:**

Loading and unloading:  
 Loading and unloading operations will take place at designated areas.


**Lifting operations:** All lifting accessories must be inspected and certified.


**Temporary works:** N/A


**Traffic management:** Site Entrance TMP attached in appendix B


**Hazardous substances:** List relevant hazardous substances:  
 - diesel  
 - petrol  
 please refer to COSHH assessments in the HSQE folder.


**PPE:**























Other/comments: additional PPE as applicable for particular task i.e.,

**Permits:** Tick below if applicable to the RAMS:

<input type="checkbox"/> Permit-to-work (client/PC)	<input checked="" type="checkbox"/> Permit-to-dig
<input type="checkbox"/> Confined space entry permit	<input type="checkbox"/> Hot work permit
<input type="checkbox"/> Permit to work under overhead lines	<input type="checkbox"/> Permit-to-lift/Lift Plan
<input type="checkbox"/> Other: Permit to Pump	<input type="checkbox"/> LOTO/Live Energies Permit

**Hold points:** The following potential hold points have been identified:

- Encountering uncharted services.
- Significant change in ground conditions.





## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

	<input checked="" type="checkbox"/> Ecology <input checked="" type="checkbox"/> Significant item/issue not covered by this RAMS.
<b>Change Management:</b>	<p><b>We all have the authority to stop any work or behaviour that we deem to be unsafe to ourselves or our colleagues.</b></p> <p>If something significant changes or a review is needed (i.e., one of the hold points identified above or other unforeseen change): stop and call the person in charge – Padraig Morrissey. for advice and to review before restarting work.</p> <p><b>Record of any on-site changes and additional controls implemented – note here and/or include in the SPA (Safe Plan of Action):</b>          (*Any changes should be copied to the RAMS author for their information/review)</p>

### 4 – Emergency Arrangements

<b>Task-specific emergency arrangements:</b>	<u><b>EMERGENCY TELEPHONE NUMBERS</b></u>
	<p>Contact the following in the event of an emergency: -</p> <p><b>Emergency Services</b> <span style="float: right;"><b>999/112</b></span></p> <p>Environmental Emergency <b>EPA (IRL)</b> <span style="float: right;"><b>1890 33 55 99.</b></span></p> <p><b>First Aid Responders(s) include:</b></p> <p>Seamus Conneely <span style="float: right;">086 793 0646</span>          Ulick Hannon <span style="float: right;">086 019 4016</span>          Tony Croke <span style="float: right;">086 387 4495</span></p> <p><u><b>Local Hospital(s)</b></u>          Tallaght University Hospital <span style="float: right;">01 414 2000</span></p> <p><u><b>Local Doctor(s)</b></u>          Saggart Medical Centre <span style="float: right;">01 458 6805</span></p> <p><u><b>Garda/Police Station(s)</b></u>          Tallaght Garda Station <span style="float: right;">01 666 6000</span></p> <p><b>Electrical Emergency</b>          ESB <span style="float: right;">(IRL) 1850 372999</span></p> <p><b>Gas Emergency</b>          Gas Networks Ireland <span style="float: right;">(IRL) 1850 205050</span></p> <p>Telecom (IRL) Eir <span style="float: right;">1850 245 424</span></p>
<b>Site Address:</b>	Saggart Reservoir, Saggart, Co. Dublin
<b>Welfare location:</b>	See SPA



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00
<b>Assembly point location:</b>	See SPA		
<b>Person in charge (PIC):</b>	Name: Pdraig Morrissey	Mobile no.: 086 814 9361	
<b>Deputy PIC (PIC absence):</b>	Name: Ulick Hannon	Mobile no.: 086 019 4016	
<b>First Aider:</b>	Name: Seamus Conneely Pearse Scanlon	Mobile no.: 086 793 0646 Mobile no.: 086 019 4016	

### 5 – Reference Documents

<b>Documents available in the HSQE folder:</b>	The following documents are available within the project HSQE folders for reference: <input checked="" type="checkbox"/> Project Health and Safety Plan/Construction Phase Plan <input checked="" type="checkbox"/> Project Environmental Plan <input checked="" type="checkbox"/> Project Quality Plan
<b>Documents in Appendix A</b>	<input checked="" type="checkbox"/> Risk Assessment
<b>Documents in Appendix B</b>	The following documents are attached in Appendix B: <input checked="" type="checkbox"/> Consultation and Briefing arrangements



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

### Appendix A – Risk Assessments

Likelihood	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
	1	2	3	4	4	5
						<b>Severity</b>

	Acceptable
	Further Review
	Unacceptable Risk

Risk = Likelihood x Severity

<b>Likelihood</b>	
Rating 1	Very Unlikely
Rating 2	Unlikely
Rating 3	Likely
Rating 4	Very Likely
Rating 5	Almost Certain

<b>Severity</b>	
Rating 1	No Injury
Rating 2	Minor Injury or Illness
Rating 3	Reportable Injury
Rating 4	Major Injury or Illness
Rating 5	Fatality, Disabling Injury, etc.

**Hierarchy of Risk Reduction: a) Elimination b) Substitution c) Engineering Controls d) Signage/Warnings and/or Administrative Controls e) PPE**

**People exposed to risk:** CCL workers, subcontractor workers, Client personnel, site visitors, delivery drivers.

HAZARD	1		2		3		4		5		6		7		8		
	Risk		Risk		Risk = Columns 1 x 2		CONTROL MEASURES		Risk (after controls)		Severity		Residual risk = 5 x 6		Controls implemented by		
	Likelihood	Severity	Likelihood	Severity	1	2			Likelihood	Severity							
Excavations	4	4	4	4	16		<ul style="list-style-type: none"> <li>- The PIC will ensure that all services are identified through liaison with the appropriate stakeholders, e.g., ESB, Irish Rail etc.</li> <li>- Permit-to-dig system will be used and detail all specific controls.</li> <li>- Statutory inspection of excavations must be carried out by a competent person and recorded on the Form AF3.</li> <li>- All excavations to be cordoned off to prevent likelihood of falls.</li> <li>- All excavations adequately benched/battered back to allow for safe access and egress. Provisions allowed for trench shields.</li> </ul>	1	4	4	4	4	4	4	4	8	PIC



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

Hazardous substances	3	2	6	<ul style="list-style-type: none"> <li>- All contractors must inform the site management of any substances hazardous to health brought onto the site.</li> <li>- Details of hazards associated with chemical products and their safe usage are given on Material Safety Data Sheets or come with the product. The supplier/retailer or manufacturer is obliged by law to give this information. A Material Safety Data Sheet must be available on site for all hazardous substances brought onto site.</li> <li>- All substances hazardous to health must be used according to the agreed control measures.</li> <li>- All personnel must be made aware of the relevant material safety data sheet / control measures in connection with all hazardous substances in use on site.</li> <li>- Chemical products must never be allowed to come into eye contact, and generally contact with the skin should be kept to a minimum.</li> <li>- Ensure that all spillages are cleaned immediately and that waste and used containers are disposed of properly.</li> </ul>	1	2	2	PM, PIC
Underground services/utilities	4	5	20	<ul style="list-style-type: none"> <li>- Assume all electricity cables/services are live unless otherwise advised by the ESB / Gas Networks Ireland.</li> <li>- Regard all buried cables/services as live. Do not assume pot-ended cables are dead or disused.</li> <li>- Before starting any excavation ensure that all services have been identified. Permit to dig to be used and briefed to all relevant personnel.</li> <li>- Employ hand-digging techniques when approaching the line of the cable.</li> <li>- Exposed cables will be supported and protected against damage. They will not be used as hand or footholds.</li> <li>- Any damage to services must be reported immediately to the Project Manager.</li> </ul>	1	4	4	PM, PIC
Lifting Operations	4	5	20	<ul style="list-style-type: none"> <li>- A Lift Plan will be prepared by Coffey Construction Limited and/or a designated competent person/company where required.</li> </ul>	1	4	4	PM, PIC





## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

Manual handling	4	3	12	<ul style="list-style-type: none"> <li>- All vehicles will be kept in a good state of repair according to the manufacturer's recommendations. Brakes and lights will be checked regularly by the driver.</li> <li>- Any designated speed limits on site are to be adhered to.</li> <li>- Dirty roadways must be cleaned immediately, where public traffic has access, to eliminate the potential of a road traffic accident.</li> <li>- Signs are provided to warn of hazards and to ensure due care and attention is taken around movement of vehicles.</li> <li>- High Visibility clothing shall be worn by all personnel working on site.</li> <li>- "Thumbs up" to be given by personnel in the vicinity of mobile plant/machinery and acknowledged by the driver/operator.</li> <li>- Manual handling to be avoided where possible, e.g., use of lifting aids.</li> <li>- Where manual handling is unavoidable a safe system of work is to be implemented.</li> <li>- Safe access and egress routes to be maintained, to avoid trip hazards.</li> </ul>	1	3	3	PIC, PM
Slips, Trips, Falls	4	4	16	<ul style="list-style-type: none"> <li>- Housekeeping will be maintained to a very high standard to avoid slips, trips or falls while handling objects.</li> <li>- Work surface will be maintained to ensure it is not uneven or likely to be a trip hazard.</li> <li>- Steps and steep ramps will be avoided as far as is reasonably practicable.</li> <li>- Barriers to be in place around excavation works.</li> </ul>	1	4	4	Site Management
Covid-19	3	4	12	<ul style="list-style-type: none"> <li>- For the duration of the COVID-19 epidemic, Coffey Group is encouraging personnel to use welfare facilities as little as possible due to the high-risk nature of multiple touch points in the likes of canteen, in particular.</li> <li>- Workers are encouraged to bring packed lunches with cold and hot drinks, as required. No utensils will be available for common use.</li> <li>- Enhanced cleaning procedures will be implemented in communal areas and at touching points at work areas including vehicles.</li> </ul>	1	2	2	PIC, PM



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 - Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

<ul style="list-style-type: none"> <li>- All tools and equipment should be properly sanitised to prevent cross contamination. Arrangements for one individual to use the same tool, plant, and equipment, as much as possible.</li> <li>- Disinfectant and cleaning provisions are available for the cleaning of tools between users.</li> <li>- Ensure soap and hand washing pictorial guides provided for hand washing are clearly visible. Enhance the cleaning regime for toilet facilities, especially door handles, locks, and toilet flush handles.</li> <li>- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.</li> <li>- Introduce enhanced cleaning of facilities throughout the day.</li> </ul>			



## RAMS (Risk Assessment Method Statement)

<b>Project name:</b>	Saggart Reservoir Design & Build Contract	<b>Project No.:</b>	J1387
<b>RAMS No. &amp; Title:</b>	J1387 - RAMS 012 – Removal, Placing & Reinstating of Material on Hurleys Field.	<b>RAMS Rev.:</b>	00

### Appendix B – Reference Documents

### Appendix C – Consultation & Briefing Arrangements

<b>Briefing conducted by:</b>	PRINT Name:	Signature:
	PRINT Name:	Signature:





