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| **Business Unit:** | C2V+ | **Contract No. & Name:** | Macclesfield C14998 |

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| ACTIVITY: | Ferric Deliveries and Spill Procedure Macclesfield | | RAMS Ref.: | 000 | | Rev: | 1 |
| Location and scope of Works: | This RAMS outlines the procedure for safe delivery, dispensing, and spill containment of Ferric Chloride used in wastewater treatment processes. Ferric is delivered to site in IBCs and tankers, both offloaded on a designated bunded road area. The bund incorporates a gully system connected to a three-way valve, which must be directed toward the ferric storage bund during any handling of ferric, to prevent accidental discharge to the surface water system. This RAMS includes methods for:  - Safe reception of ferric deliveries  - Correct use of the three-way valve  - Dispensing ferric from IBCs via pump  - Immediate containment and clean-up of chemical spills  - Waste handling and environmental protection  - PPE requirements and emergency response | | | | | | |
| Start date: | April 2025 | Anticipated completion date: | | | August 2025 | | |

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| APPROVAL & AMENDMENT RECORD | | | | | | | |
| Rev | Prepared by | | Date | Reviewed / Approved by | | Date | Amendment Details |
| 0 | Name | Jonathan Jackson | 12/04/25 | Name |  |  | First issue |
| Signature |  | Signature |  |

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| REVIEW / CHANGE LOG | | | |
| Date | Reviewer | Comments | Rev No. |
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| Personnel consulted during preparation of this document: |  |

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| Distribution List: | | |
| Name | Company | Position |
| Josh Price | C2V+ | Commissioning Manager |
| Angus Strowbridge | C2V+ | Process Commissioning Engineer |
| Martin Robertson | C2V+ | Contracts Manager |
| Ellen Griffin | C2V+ | Senior Engineer |

| **RISK ASSESSMENT for:** | | Ferric Deliveries and Spill Procedure Macclesfield | | | RAMS Ref.: | 000 | | Rev: | 1 |
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| No. | Hazard | Person(s) at Risk | Undesired event | Control Measures  *(List control measures that are required)* | | | Actioned by | | Date |
|  | Chemical splash during IBC connection | * Operatives | Eye/skin burns | Wear chemical PPE; follow procedure; trained operatives only | | | Supervisor | |  |
|  | Valve left in wrong position | * Environment | Pollution to watercourse | Visual check, signage, checklist, supervision | | | Site Supervisor | |  |
|  | Overfilling tank during pump transfer | * Operatives, Environment | Spill and exposure | Do not leave pump unattended, monitor tank, use manual control | | | Operatives | |  |
|  | Damaged IBCs | * Operatives | Chemical leak | Inspect before use, label verification, store on bunded area | | | Chemical Delivery Team | |  |
|  | Hose failure | * Operatives | Pressurised chemical exposure | Inspect hoses, secure connections, use quality equipment | | | Supervisor | |  |
|  | Inadequate bund capacity | * Environment | Spill escapes bund | Check bund freeboard, inspect bund before use | | | Commissioning Team | |  |
|  | Improper PPE usage | * Operatives | Chemical burns or inhalation | PPE briefing, site supervision, enforce compliance | | | Site Manager | |  |
|  | Spill kit empty or incomplete | Environment, Operatives | Delayed spill response | Daily kit checks, post-use restock process | | | Stores Manager | |  |
|  | Fumes in poorly ventilated area | Operatives | Respiratory harm | Only use ferric in open or ventilated areas, RPE issued | | | H&S Manager | |  |
|  | Slip from chemical spill | Operatives | Injury from fall | Clean spills promptly, deploy signage, wear boots with grip | | | All Site Staff | |  |
|  | Failure to contain spill fast | Environment | Spread beyond control | Toolbox talk, pre-task planning, visible instructions | | | Supervisor | |  |
|  | Overflow of bund due to rain | Environment | Bund bypass | Drain and inspect bund before use in heavy rain | | | Site Supervisor | |  |
|  | Mislabelled chemical | Operatives | Incorrect handling or reaction | Cross-check labels and SDS on receipt | | | Chemical Supplier | |  |
|  | Incompatible materials stored nearby | Operatives | Chemical reaction | Dedicated chemical zones, COSHH segregation | | | Stores Team | |  |
|  | Untrained personnel dispense chemical | Operatives | Incorrect procedure | Only trained staff, check tickets, no lone working | | | Site Manager | |  |
|  | Incorrect disposal of waste | Environment | Environmental pollution | Use UN containers, licensed waste collection | | | Commissioning Team | |  |
|  | Improper clean-up technique | Operatives | Contact or further spread | Use correct tools, avoid metal shovels, follow steps | | | Spill Responder | |  |
|  | Manual handling of IBCs | Operatives | Muscle strain/injury | Use mechanical aids or team lift, training in place | | | Supervisor | |  |
|  | Spill reaches surface water | Environment | Regulatory breach | Confirm valve position, emergency drain covers | | | Operatives | |  |
|  | Failure to notify UU/C2V | Management, Environment | Delayed investigation | Reporting procedure, checklists, training | | | Site Manager | |  |
|  | Spillage during rain | Environment | Chemical dilution/runoff | Cover IBCs, avoid transfers in wet conditions | | | Supervisor | |  |
|  | Trip hazard from hoses | Operatives | Trips and injuries | Tidy hose routing, use cable mats, monitor during work | | | Operatives | |  |
|  | No eyewash available | Operatives | Delayed response to splash | Check station weekly, place near chemical zones | | | First Aider | |  |
|  | PPE contamination cross-transfer | Operatives | Spread of chemical to welfare areas | Change before break, barrier zones, PPE bins | | | All Staff | |  |
|  | Vandalism or interference with IBCs | All site personnel | Spill or contamination | Secure storage, lockable compound | | | Foreman | |  |
|  | Frost-damaged pipe or container | Operatives, Environment | Burst/leak | Inspect in winter, frost protection on outdoor kit | | | Supervisor | |  |
|  | Incorrect pump used | Operatives | Pump seal failure/leak | Only use designated chemical-compatible pumps | | | Stores Manager | |  |
|  | Failure to monitor delivery | Operatives | Overpressure/spillage | One-to-one supervision during delivery | | | Site Supervisor | |  |
|  | Blocked bund gully | Environment | Flood or overflow during washdown | Clear before use, visual check on setup | | | Operatives | |  |
|  | Improper bund valve operation | Environment | Runoff escapes to surface water | Train on 3-way valve use, signage present | | | Site Manager | |  |
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| ACTIVITY: | | Ferric Deliveries and Spill Procedure Macclesfield | | | RAMS Ref.: | 000 | Rev: | 1 |
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| METHOD STATEMENT | | | | | | | | |
| Personnel REQUIRED  *Give the number and role of personnel required to carry out activity including any specific skills, fitness levels, training or qualifications required.* | | | | | | | | |
| No. of | Role | | Qualifications / Experience required | | | | | |
|  | Commissioning Manager | | | Ensure all staff are briefed on procedures and adequate resources are available. | | | | |
|  | Supervisor | | | Oversee delivery and handling operations, ensure valve position and PPE compliance. | | | | |
|  | Operatives | | | Follow all safety procedures, wear required PPE, and manage spill response kits. | | | | |
|  | Brenntag | | | Ensure safe connection, operation of tanker equipment, and provide SDS. | | | | |
|  | Commissioning team | | | Monitor compliance with bunding, drainage protection, and disposal of waste. | | | | |

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| Associated Documents: | | | | | | | | | |
|  | | | | Required | | Location of document if not attached to this RAMS | | | |
| Yes | No |
| COSHH Assessment Ref. | | | |  |  |  | | | |
| Lift Plan (Nonroutine) H5503 / R07 | | | |  |  |  | | | |
| Rescue Plan *(for working at height)*: | | | |  |  |  | | | |
| Other Documents: *(such as drawings, sketches, consents, licenses, etc.)* | | | |  |  |  | | | |
| Permits / PLANS Required *Indicate those that apply or add other contract specific permits* | | | | | | | | | |
| Permit to Break Ground  H1401 / H1401R | Hot Works Permit  HSE27 | Confined Space Permit  HSE21 | Routine Lift Plan  H5503 /  R07 | | Permit to Operate Plant  H0909 | | Work Near Power Lines  H1408 | Temporary Works  Q25 | Permit to Pump  EMS29 |
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| ACTIVITY: | Ferric Deliveries and Spill Procedure Macclesfield | RAMS Ref.: | 000 | Rev: | 1 |
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| RESOURCES REQUIRED | | | | | |
| **The following equipment must be available and used during ferric delivery and spill containment activities:**  - Spill response kit for corrosive liquids (absorbent granules, neutralising agents, pads, socks)  - Shovels and sealable plastic containers for contaminated material  - Portable bund or drip trays for temporary containment  - Signage for valve position reminders  - Eyewash stations and emergency showers  - Ferric transfer pump (for IBC dispensing)  - Emergency stop button and communication system  - Bunded area gully with manual three-way valve control  - Chemical waste containers (UN approved) | | | | | |

| ACTIVITY: | | Ferric Deliveries and Spill Procedure Macclesfield | RAMS Ref.: | 000 | Rev: | 1 |
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| Programme of Operations and Potential Interface with Others: | | | | | | |
| Sequence of Activities / Safe System of Work  *(to include access / egress, plant & pedestrian segregation, limitations & constraints and state any HOLD POINTS)* | | | | | | **Hold Point** |
|  | **Scope of Works**  This RAMS outlines the procedure for safe delivery, dispensing, and spill containment of Ferric Chloride used in wastewater treatment processes. Ferric is delivered to site in IBCs and tankers, both offloaded on a designated bunded road area. The bund incorporates a gully system connected to a three-way valve, which must be directed toward the ferric storage bund during any handling of ferric, to prevent accidental discharge to the surface water system. This RAMS includes methods for:  - Safe reception of ferric deliveries  - Correct use of the three-way valve  - Dispensing ferric from IBCs via pump  - Immediate containment and clean-up of chemical spills  - Waste handling and environmental protection  - PPE requirements and emergency response | | | | |  |
|  | **Personnel and Responsibilities**  Site Manager - Ensure all staff are briefed on procedures and adequate resources are available.  Supervisor - Oversee delivery and handling operations, ensure valve position and PPE compliance.  Operatives - Follow all safety procedures, wear required PPE, and manage spill response kits.  Chemical Supplier - Ensure safe connection, operation of tanker equipment, and provide SDS.  Commissioning team - Monitor compliance with bunding, drainage protection, and disposal of waste. | | | | |  |
|  | **Hold Points**  **The following are critical hold points during/before/after the task:**   1. **Pre-Delivery Setup**  * Bunded area must be inspected and confirmed free of water and debris. * Three-way valve must be manually turned to divert gully runoff into the ferric bund. * Checked by Operative, released by Site Supervisor.  1. **Tanker Arrival**  * All operatives must be in full chemical PPE. * Spill kits must be present and fully stocked. * Ferric delivery paperwork and SDS must match product. * Checked by Delivery Team, released by Supervisor.  1. **Before Starting Pump Transfer**  * Hoses securely connected, drip trays in place. * Bund gully confirmed open and clear. * Emergency stop location and procedures briefed. * Checked by Operative, released by Supervisor.  1. **Post-Delivery Inspection**  * Hose removed and cleaned. * Any rinse water directed into bund only. * Valve returned to surface water position only after area is clean and dry. * Checked by Operative, released by Environmental Officer.  1. **Before Dispensing from IBC**  * IBC visually inspected, label verified, pump and hoses prepared. * Spill kit within 5 metres. * Valve turned to bund. * Checked by Operative, released by Supervisor.  1. **Upon Spill Detection**  * STOP WORK. Contain source and use granules or booms. * Report made to Site Manager and UU/C2V notified. * Checked by Spill Responder, released by Site Manager.  1. **Waste Disposal**  * Contaminated PPE and absorbents bagged and placed in UN waste containers. * Await collection by licensed contractor. * Checked by Commissioning team, released by General Foreman.  1. **Return to Normal Operation**  * Spill kit restocked. * Three-way valve returned to default. * Work area inspected and signed off clean. * Checked by Operatives, released by Supervisor or H&S Rep. | | | | |  |
|  | **Sequence of Activities:**  **Ferric Tanker Delivery Procedure**   1. Confirm delivery time and ensure trained operatives are available. 2. Inspect bunded road area for cleanliness and ensure gullies are unblocked. 3. Turn the three-way valve to direct all surface water to the ferric storage bund. 4. Place spill kit and PPE near delivery area and brief all team members. 5. Escort the tanker into position and chock wheels. 6. Operator to wear full chemical PPE and connect hose to fill point. 7. Commence delivery while monitoring hose joints and fill levels. 8. Site representative to stay with tanker during the entire process. 9. Upon completion, disconnect hose, clean fittings with water into bund. 10. Inspect for leaks/spill, clean using spill kit if required. 11. Record delivery and any incidents in site log. 12. Once fully cleaned and dry, return the three-way valve to surface water position.   **Dispensing Ferric from IBCs**   1. Confirm IBC is stored in bunded road area. Inspect bund and ensure gullies are clear. 2. Turn three-way valve to direct runoff to the ferric storage bund. 3. Check IBC for damage or leaks. Verify label matches contents. 4. Place spill kit within 5 metres of dispensing area. Prepare PPE and tools. 5. Operator to don full chemical PPE including face shield, gloves, and apron. 6. Connect hose from pump to IBC valve and secure outlet pipe into receiving tank. 7. Ensure pump is stable on flat surface or fixed mount. 8. Begin transfer slowly, monitoring hose joints and flow control. 9. Do not leave dispensing unattended at any point. 10. On completion, stop pump, seal IBC valve, and disconnect. 11. Inspect area for drips/spills, clean with pads or absorbent if necessary. 12. Log volume transferred and IBC serial number. 13. Return valve to surface water drain position once area is clean and dry.   **Spill Containment and Response**   1. As soon as a spill is identified, all operatives must cease the current activity immediately. This includes shutting off the pump, closing the IBC valve, and disengaging any active delivery or dispensing equipment. The source of the spill must be isolated without delay to prevent further release of ferric chloride. Do not attempt to contain the chemical until the flow has completely stopped. 2. If the spill is considerable or if there is a noticeable release of fumes or mist, the surrounding area must be evacuated. Alert all personnel in the vicinity using a loud verbal warning or site alarm if available. Ensure that the emergency muster point is known to all team members. Do not re-enter the affected area until it has been deemed safe. 3. Only personnel equipped with appropriate chemical Personal Protective Equipment (PPE) may enter the spill area. This includes chemical-resistant gloves, goggles or face shield, safety boots, and a chemical-resistant suit or apron. Where required by the COSHH risk assessment or where fumes are suspected, a suitable respirator (FFP3 or higher) must be worn. 4. Use chemical absorbent socks or booms to create a physical barrier around the perimeter of the spill. The goal is to prevent the spill from spreading toward sensitive areas such as surface drains, footpaths, or open ground. Make sure the perimeter is fully enclosed before applying granules. 5. Apply absorbent granules evenly over the entire surface of the spill. Begin from the outermost edge of the spill and work gradually inward. Allow sufficient time for the granules to fully absorb the ferric chloride. Ensure complete coverage to reduce any risk of secondary runoff or tracking by boots. 6. Once the granules have absorbed the liquid, use a non-metallic (plastic or poly) shovel to gather the contaminated material. Avoid sweeping motions that might aerosolize the product. Carefully place the material into a sealed, UN-approved chemical waste container. 7. After the bulk of the spill has been removed, the area should be rinsed with clean water. This should only be done if the three-way valve is turned to direct runoff into the ferric bund. Use enough water to dilute any remaining residues but avoid excessive flushing that may lead to pooling or overflow. 8. Under no circumstances should the rinse water or uncontained ferric chloride be allowed to enter the surface water drainage system. Always confirm the position of the three-way valve before using water and use drain covers if needed for added protection. 9. Any PPE that comes into contact with the spill, including gloves and disposable coveralls, must be removed carefully and treated as contaminated. Place all used PPE in a dedicated chemical waste bag and transfer to the hazardous waste compound for proper disposal. 10. Document the spill incident immediately after clean-up. Include estimated volume, location, time, materials used during the response, and names of personnel involved. This should be entered into the site Spill Log and cross-referenced in the daily site diary. 11. Report the incident to the Site Manager, Environmental Officer, and Safety Team. In addition, notification must be sent to United Utilities and C2V Snr Management, even for small, contained spills. This ensures regulatory transparency and enables further analysis if required. 12. Immediately replace any used items from the spill kit to ensure preparedness for any future incidents. Check the expiry date of absorbent products and reorder supplies from stores as necessary. | | | | |  |
|  | **Environmental Controls:**  The site is committed to preventing pollution and protecting surface water and land from contamination. Environmental controls in place for ferric chloride handling include:   1. Use of a bunded delivery and dispensing area with integrated gullies. 2. Manual control of three-way valve to direct liquid runoff either to the ferric bund (during use) or to surface water (during dry weather). 3. Spill kits placed within 5m of any chemical handling operation. 4. Drain covers available in case of suspected or active leaks. 5. Visual inspection of bund and gullies weekly and before every delivery. 6. Emergency containment barrels and portable bunds available for temporary isolation. 7. All spills to be recorded and reported to Environmental Officer and included in site environmental reporting returns. 8. Waste from spill clean-up to be stored in chemical waste compound and removed by licenced carrier. 9. Reference CESWI 7.1 – ‘Spill prevention and response planning shall be included in the environmental management systems and reflected in site method statements.’ | | | | |  |
|  | **Emergency Contacts:**   |  |  |  |  | | --- | --- | --- | --- | | Process Controller | Mike Kimpton | United Utilities | 07748 783818 | | Production Manager | Harley Rathbone | United Utilities | 07825 522625 | | Project Manager | Tamsyn Lee | United Utilities | 07584 880665 | | Whole Life Progr Mangr | Sarah Mills | United Utilities | 07920 239210 | | Snr Project Manager | Pranav Patel | C2V+ | 07871 772115 | | Commission Manager | Josh Price | C2V+ | 07546 681836 | | Commissioning | Angus Strowbridge | C2V+ | 07713 653677 | | Snr General Foreman | Jon Jackson | C2V+ | 07929 024920 | | Works Manager | Chris Robinson | C2V+ | 07876 876447 | | | | | |  |

| ACTIVITY: | Ferric Deliveries and Spill Procedure Macclesfield | | | RAMS Ref.: | | 000 | Rev: | 1 |
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| Mandatory and additional PPE required:  *(rigger boots or similar are banned from use, wellingtons can only be used following inclusion in the RA)* | | | | | | | | |
| Mandatory PPE: | | |  | | | | | |
| All personnel involved in handling, transferring, or responding to ferric chemical spills must wear the following PPE at all times:  - Safety helmet (EN 397)  - Chemical-resistant gloves (nitrile or PVC, EN ISO 374-1)  - Full-face shield or chemical splash goggles (EN 166)  - Chemical-resistant coverall or apron (EN 14605 Type 3 or 4)  - High visibility clothing (EN ISO 20471)  - Safety wellington boots with chemical resistance (EN ISO 20345)  - Respiratory protection (FFP3 mask or higher) if required during spill clean-up | | | | | | | | |
| Environmental considerations: *Consider Waste Management pollution prevention measures, protected wildlife / sites / trees, noise / vibration / dust, resource use. Refer to H02G03 Environmental Guidance for RAMS* | | | | | | | | |
| Waste Management | | | | | | | | |
| See Above | | | | | | | | |
| Pollution Prevention *(water & ground; consider fuels, concrete & silt)* | | | | | | | | |
| See Above | | | | | | | | |
| Protected & Invasive Species | | | | | | | | |
| See Above | | | | | | | | |
| Nuisance *(noise, dust, vibration)* | | | | | | | | |
| See Above | | | | | | | | |
| Resource Use *(fuel, water, aggregates, etc.)* | | | | | | | | |
| See Above | | | | | | | | |
| Other *(archaeology, NRMM, etc.)* | | | | | | | | |
| See Above | | | | | | | | |
| Emergency response: | | | | | | | | |
| Event | | Action to be Taken *(indicate location of first aid facilities, fire extinguishers, spill kits, rescue lines)* | | | Emergency Contact Details | | | |
| Fire: | | Raise the alarm, go to the muster point at car park one entrance, fire extinguishers located at MCC notice boards. | | | Alert Fire Warden or 999 | | | |
| Accident: | | Administer first aid (first aid kits in operatives canteen, office reception and MCC noticeboard). Call 999 if needed. | | | Alert First Aider  Ellen Griffin – 07557 104412  Jon Jackson - 07929024920  or 999 | | | |
| Pollution: | | Emergency spill procedure to be actioned. | | | Alert Site Management | | | |
| Water: | | Site management to be informed who will alert UU. | | | Alert Site Management or UU | | | |
| Service strike: | | N/A | | | N/A | | | |

**Record of briefing of the personnel who are to undertake this work:**

*(Extend the table as necessary to record the briefing on any revisions in separate rows)*

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| ACTIVITY: | Ferric Deliveries and Spill Procedure Macclesfield | RAMS Ref.: | 000 | Rev: | 1 |
| Briefing Given by: *(name)* |  | Signed: |  | Date: |  |

I confirm that I have received and understood the briefing for the task(s) outlined.

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| Forename | Surname | Role  *(in relation to this task)* | Signature | Date and time |
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| ACTIVITY: | Ferric Deliveries and Spill Procedure Macclesfield | RAMS Ref.: | | 000 | | | Rev: | 1 |
| **MINOR AMENDMENTS** | | | | | | | | |
| AMENDMENT TO RAMS CARRIED OUT BY *(Supervisor responsible for works)* | | | | | | | | |
| Name | Position | Signature | | | | Date | | Time |
|  |  |  | | | |  | |  |
| AMENDMENT SUMMARY *changes required & reasons for minor amendment(s)* | | | | | | | | |
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| Outline of the significant hazards involved: | | | Outline the controls to be followed to do the work: | | | | | |
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| AMENDMENT TO RAMS APPROVED BY *(Manager responsible for works)[if approval by phone call record date & time]* | | | | | | | | |
| Name | Position | Signature | | | Date | | | Time |
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I confirm that I have received and understood the briefing for the task(s) outlined:

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| Forename | Surname | Role  *(in relation to this task)* | Signature | Date and time |
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