

Technical Note

Project:	Bradford Road, Manchester (Site Code 0049)		
Subject:	EHO Response		
Author:	Atkins		
Date:	30/06/2023	Project No.:	5214733
Distribution:	WSP	Representing:	

Document history

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
1.0	EHO response – Condition 1	JB	NS	RG	RG	03.06.23

Client signoff

Client	National Grid Property Holdings Ltd
Project	Bradford Road, Manchester (Site Code 0049)
Project No.	5214733
Client signature / date	

Background

Atkins Limited (Atkins) on behalf of National Grid Property Holdings Limited (NGPH) completed a bespoke report summarising the demolition and infilling works strategy to dewater, de-sludge, demolish and backfill the former Gasholder No. 2 at Bradford Road Manchester, M40 7BN [1]. The report was produced to support a General Permitted Development Order (134295/DEM/2022) which included the following conditions:

- Condition 1 - previous site investigation information which subsequently informed detailed risk assessments to evidence the conceptual understanding of the site and the local environment through a conceptual site
- model (CSM), illustrating potential linkages by which both on-site and off-site human health and controlled waters receptors could be at risk from the proposed demolition and infilling works;
- Condition 2 - appropriate infilling methodology, materials management plan and strategy, based on the results of the investigation and risk assessments of the site; and
- Condition 3 - a verification plan providing details of the data that will be collected in order to demonstrate that the works set out in this demolition and infilling approach are complete and whether longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action is required.

The objective of this technical note is to provide additional information to address the environmental health officers (EHO) response to the Bespoke Demolition and Infilling Report [1] .

Verification of Soil (500mm + membrane)

Table 4.1 in the Bespoke Demolition and Infilling Report [1] details the testing requirements for soils to be used in the capping layer. Section 6.5 details that all imported fill material will be tested at a minimum rate of 1 sample per 1000 m³ and at least 3 samples per material source at a UKAS accredited laboratory. Where possible, the number of fill material sources utilised will be minimised.

Prior to placement of the capping layer, analytical chemical and geotechnical results of material to be used for the capping shall be screened against import criteria set out in Table 4.1 and 4.3 in the Bespoke Demolition and Infilling Report [1] to prove the material is suitable for use.

A geotextile marker layer of Terram 1000 or equivalent will be placed between the top 500 mm and bulk infill material.

A verification report will be produced for works undertaken on site, as detailed in Section 7 of the Bespoke Demolition and Infilling Report [1] . This will include a review of the chemical testing results from imported material used in the capping layer, and a comparison of these to the assessment criteria set out in Table 4.1 and 4.3 in the Bespoke Demolition and Infilling Report [1]. The report will detail the number of samples and the source of the material including any transfer or delivery notes.

Receipts and specifications of the membrane will be included within the report, along with photographic evidence of placement.

Waste Transfer Notes

The dismantling of the gasholder will result in a range of waste types likely to include steel, metal and sludge. The Contractor shall make adequate provision for storage, testing and disposal of the steel, metal and sludge in accordance with current legislative requirements. Where possible, waste shall be sent for reuse/recycling rather than disposal to landfill. Upon demolition the gasholder is to be infilled with imported fill material (WRAP).

The Contractor is responsible for applying for all required permits and consents and ensuring that all wastes are managed in full compliance with all legal requirements and the Duty of Care.

Weighbridge tickets and waste transfer notes will be held by the Contractor and submitted as part of the verification report.

An example of a waste transfer note is appended (Appendix B).

Watching Brief

The Contractor will be responsible for ensuring all works are undertaken in line with the Contractor's Construction Phase EMP and the Bespoke Demolition and Infilling Report [1]. A site manager and site foreman are to be present on site in a full-time capacity for the duration of the works. The Contractor shall monitor and record the imported material brought on to site and undertake continuous noise, dust, odour, VOC and vibration monitoring during the works.

Atkins will be attending site on a twice weekly basis during the works to ensure all mitigation measures are being followed and material is being handled appropriately. In addition, site oversight visits will be led by NGPH SHE compliance and auditor consultant and on a twice monthly basis.

References

[1] Atkins Bespoke Demolition and Infilling Report 2023

Appendix A - Figure 7 Infilling Plan

Appendix B - Example Waste Transfer Notes

Appendix A – Infilling Plan

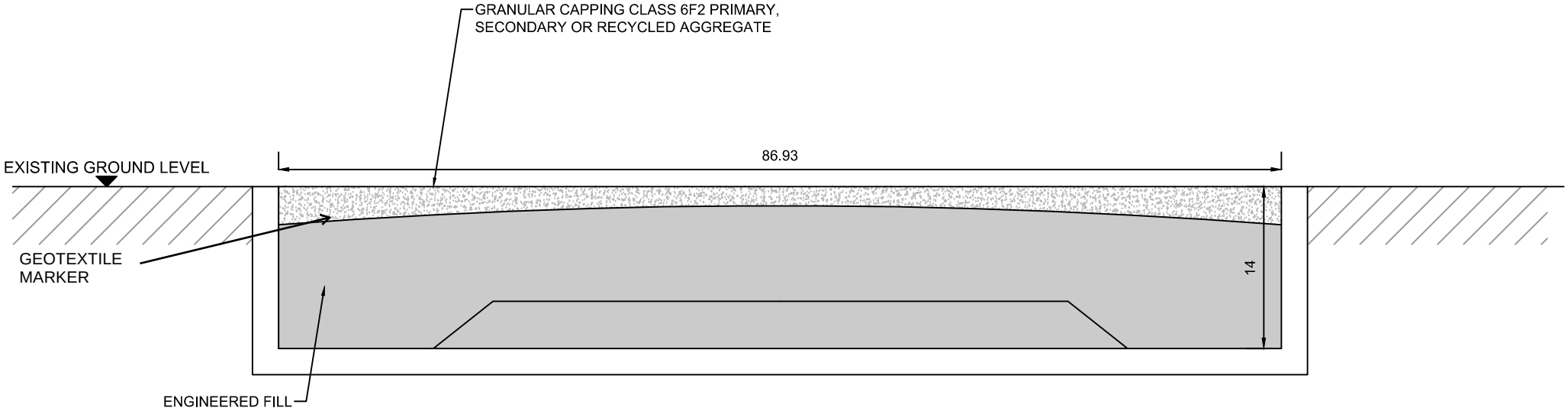
100
0 10
Millimetres

CLASSIFICATION - Baseline (Low Risk)

DO NOT SCALE

KEY:

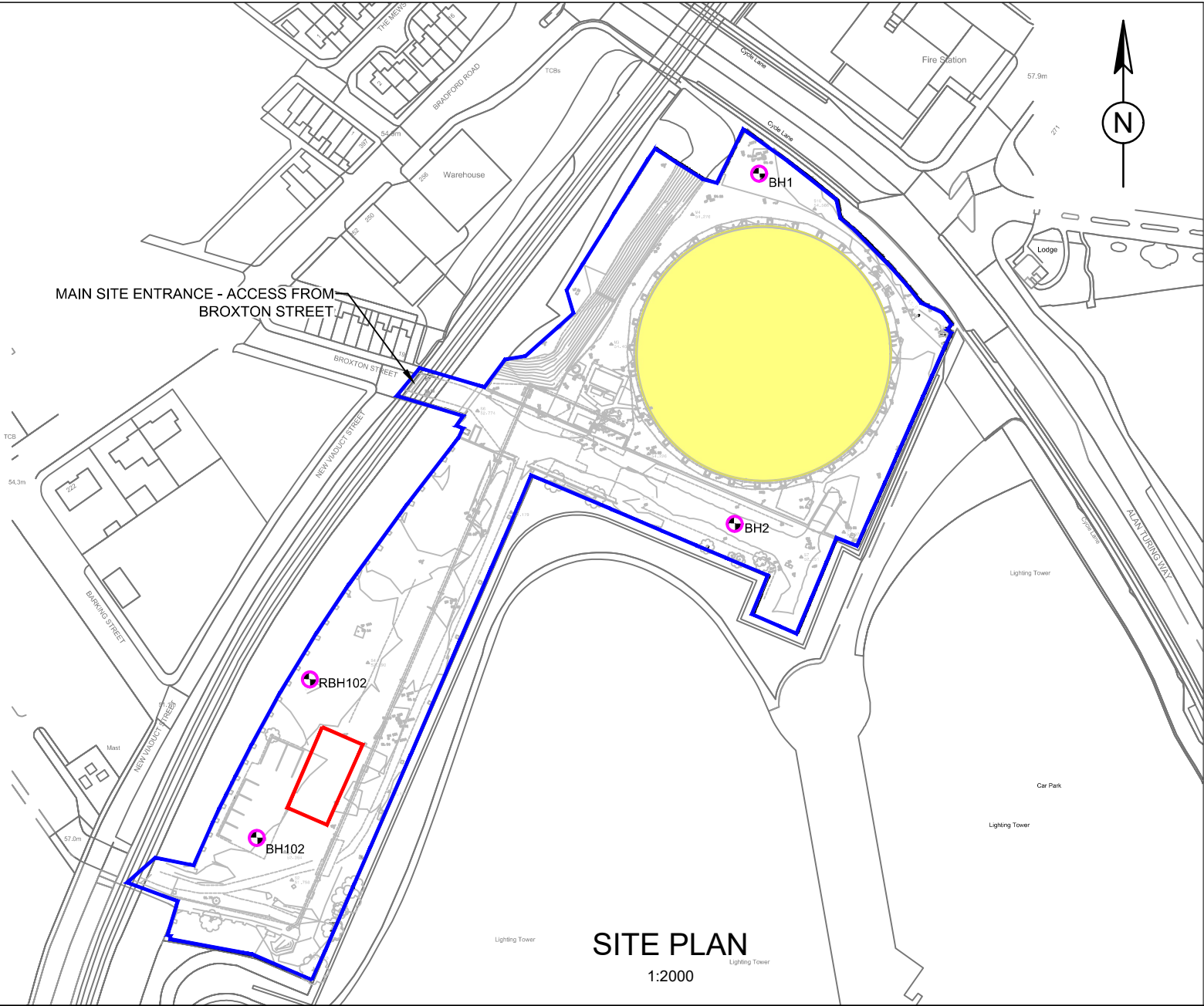
- NATIONAL GRID PROPERTY SITE OWNERSHIP BOUDNARY (CONTRACTOR TAKEOVER FROM BNP-PRE)
- CADENT GAS SITE BOUNDARY
-  BOREHOLE TO BE PROTECTED DURING THE WORKS
- STRUCTURES TO BE INFILLED



TYPICAL PROPOSED SECTION
NTS

NOTES:

- DO NOT SCALE.
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CONTRACT DRAWINGS AND SPECIFICATION.
- ANY DISCREPANCIES ON THIS DRAWING NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
- ANY SURVEY INFORMATION USED IN THE PREPARATION OF THE DRAWING IS NOT WARRANTED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS SURVEY INFORMATION PROVIDED.
- THE CONTRACTOR IS REQUIRED TO ADMINISTER ALL ASPECTS OF THE SITES HEALTH AND SAFETY DURING HIS POSSESSION IN ACCORDANCE WITH ALL CURRENT CODES OF PRACTICE AND LEGISLATION GOVERNING HEALTH AND SAFETY AND TO COMPLY WITH ALL CDM REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES ON THE SITE PRIOR TO COMMENCING THE WORKS AND VERIFY THEIR STATUS. THE CONTRACTOR IS TO LIAISE WITH THE RELEVANT STATUTORY UNDERTAKERS.
- THE CONTRACTOR IS TO REFER TO THE HAZARDOUS MATERIALS INFORMATION IN THE SPECIFICATION AND IS TO REMOVE AND DISPOSE OF ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH THE SPECIFICATION AND CURRENT LEGISLATION PRIOR TO THE DEMOLITION WORKS COMMENCING.
- CONTRACTOR TO ENSURE THE SITE IS SET UP WITH CLEAN AND DIRTY AREAS AND A DECONTAMINATION UNIT / SHOWERS ARE PRESENT ON SITE FOR THE DURATION OF THE WORKS.
- CONTRACTOR TO LIAISE WITH CADENT GAS TO CONFIRM EXTENT OF CADENT GAS PLANT PROTECTION REQUIREMENTS.
- CONTRACTOR IS TO SATISFY CADENT GAS PLANT PROTECTION THAT WORKS WILL NOT AFFECT ANY LIVE EQUIPMENT WITHIN THE SITE.
- CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF THE SITE AT ALL TIMES.
- CONTRACTOR TO MAINTAIN 24/7 ACCESS TO CGL FOR THE DURATION OF THE WORKS, INCLUDING OUT OF HOURS.
- CONTRACTOR TO ENSURE SUITABLE EDGE PROTECTION IS IN PLACE AROUND THE GASHOLDERS DURING INFILLING WORKS.
- CONTRACTOR TO REFER TO ECOLOGICAL IMPACT ASSESSMENT (2019) FOR ECOLOGY CONSTRAINTS.
- CONTRACTOR TO LIAISE WITH CADENT GAS OVER ANY ACCESS REQUIREMENTS TO LIVE OVERHEAD GAS MAINS AND COMPOUNDS.
- CONTRACTOR TO NOTE THAT LIFTING OR OTHER OPERATIONS ABOVE ANY LIVE PLANT WILL NOT BE PERMITTED.
- ALL PALISADE FENCING TO BE PROTECTED DURING THE WORKS. FENCING TO BE INSPECTED FOR DAMAGE PRIOR TO WORK COMMENCING AND DAMAGE REPAIRED IF REQUIRED.
- MATERIAL USED FOR BACKFILL SHALL MEET THE REQUIREMENTS OF NGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS). THE BACKFILL MATERIAL SHALL BE FREE FROM ASBESTOS FIBRES ("NO ASBESTOS DETECTED"). GEOTECHNICAL TESTING REQUIMENTS SHALL BE AS PER THENGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS). THE FREQUENCY OF IMPORTED MATERIAL TESTING SHALL BE A MINIMUM OF 1 PER 500M3 AND AT LEAST THREE SAMPLES PER SOURCE.
- MATERIAL USED FOR BACKFILL SHALL BE APPROVED BY THE SUPERVISOR AND LOCAL PLANNING AUTHORITY PRIOR TO BEING BROUGHT TO SITE.
- GASHOLDER WALLS AND TANK BASE TO REMAIN INTACT.
- ALL REDUNDANT PIPE WORK TO BE CAPPED OFF AT GROUND LEVEL AND BACKFILLED IN ACCORDANCE WITH THE NGPH DEMOLITION OF STRUCTURES: CORE SPECIFICATION 2020 (AND SUBSEQUENT AMENDMENTS).
- EXISTING 'LIVE' SERVICES TO BE PROTECTED FROM DAMAGE DURING THE WORKS.

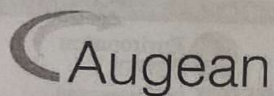


SITE PLAN
1:2000

P01	27/07/22	FOR INFORMATION		MF	NS	RG
Rev	Date	Description		By	Chk'd	App'd
Drawing Status				Suitability		
FOR INFORMATION				S2		
 SNC-LAVALLIN  Member of the SNC-Lavalin Group			200 Broomielaw Glasgow G1 4RU Tel: +44 (0)1412 202000 Fax: +44 (0)1412 202001 www.atkinsglobal.com © SNC-Lavalin (2022)			
Client						
NATIONAL GRID PROPERTY HOLDINGS						
Project Title						
NGPH BRADFORD ROAD DEMOLITION AND INFILLING						
Drawing Title						
FIGURE 7 INFILLING PLAN						
Scale	Designed	Drawn	Checked	Authorised		
AS SHOWN	NS	MF	NS	RG		
Original Size	Date	Date	Date	Date		
A3	21/07/2022	22/07/2022	22/07/2022	27/07/2022		
Drawing Number				Revision		
FIGURE 7				P01		

CLASSIFICATION - Baseline (Low Risk)

Appendix B - Example Waste Transfer Notes



Port Clarence Site
Off Huntsman Drive
Middlesbrough TS2 1UE
tel. 01642 546836

ADVICE/WASTE TRANSFER NOTE TICKET NO: 497062 Permit : EPR/YP3234XR/V007

CUSTOMER: C003186 Hydrotec Industrial Services L Oakleaf House Main Street Cliffe North Yorkshire YO8 6NL		HAULIER: CLW001 Clwyd Transport Services Ltd Clwyd House, Blackwood Busines Wrexham Wrexham	
ORDER NO: NA	SOURCE: 226 Manchester	VEH. TYPE: TIPP TIPPER	VEH. REG NO: MX19EWN
		CARRIER NO: CBDU3337	TRANSFER NO: HYDROT33014
WASTE TYPE:			
WASTE CATEGORY: L160709 - Other HazTank Cleaning Wastes			
CONTAINER:		GRID REF: SPG - STN	
		Job No. : L221204100004	
	WEIGHT KG'S	SEQ. NO	DATE
GROSS	23980	007293	13/12/2022
TARE	12500	MANUAL	13/12/2022
NET	11480		12:40
			12:39
		MEASURE	11.48 Tonne
PRINT NAME:	SIGNATURE ON BEHALF OF CUSTOMER:		
PC-WEIGHBRIDGE	SIGNATURE FOR AUGEAN:		

The Hazardous Waste Regulations 2005: Consignment Note



Environment
Agency

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

- 1 Consignment note code: **HYDROT/3301404**
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
**Miles Platting Gasholder Station
Bradford Road
Manchester
M40 7AS**
- 3 The waste will be taken to (name, address and postcode):
**Augean, Off Huntsman Dr, Port Clarence
Stockton-on-Tees, Middlesbrough, TS2 1UE**
- 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):
Hydrotec Industrial Services Ltd (See Part D)

PART B Description of the waste

- 1 The process giving rise to the waste(s) was: **Gasholder Demolition**
- 2 SIC (2007) for the process giving rise to the waste: **4311**
- 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Gasholder Sludge	1 6 0 7 0 9	20,000	Hydrocarbon & Heavy Metals	70.1%	Sludge	BP10, BP11, BP14, BP15, BP16, BP17	Tipper

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here: ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

1

1 Carrier name: **Lee**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):

2 Carrier registration no./reason for exemption: **CBDU 3333**

3 Vehicle registration no. (or mode of transport, if not road): **MX19 EWN**

Signature **WMO**

Date **3/12/2022**

Time **08:57**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: **Hydrotec Industrial Services Ltd**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**Chapel Farm, Old Trough Lane
Sandholme
Brough, East Yorkshire, HU15 2XW**

M: 07723920026 E: gavin@hydrotec-services.co.uk

Signature **B**

Date **11/12/2022**

Time

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
160709	11480		D59

1 I received this waste at the address given in A3 on: Date **13/12/2022** Time **12:40**

2 Vehicle registration no. (or mode of transport if not road): **MX19 EWN**

3 Where waste is rejected please provide details:

Name: **D Forner**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):

A3A3

I certify that waste permit/exempt waste operation number:

48223422
authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature

Date **13/12/2022**

Time **12:47**

Chartrange.

Wharf Street, Dukinfield,
Cheshire. SK16 4NJ
Tel: 0161-339 4949
Fax: 0161-339 4437

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: CBDU177542

Date: 27-6-23 No: 37601

A Producer of the materials	Company / Name <u>CHARTRANGE</u> Site Address: <u>WHARF STREET</u> <u>SK16 4NJ</u>
B Description of the materials	How are materials contained? <u>1x8U</u> Describe materials being transferred <u>1A Full</u> EWC: <u>170504</u> Quantity <u>14200</u>
C Carrier of the materials	Drivers Name <u>YASSER</u> Vehicle Reg <u>CO16 PBD</u>
D Disposer of the materials	Company Name <u>ERITH</u> Disposal Address <u>MILES PLATTING</u> Licence No. _____
Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request	
MINIMUM HIRE 9 HOURS	
Day Work: _____	Hours Worked: _____
	Travel Time: _____
	Total Hours: _____
No. of Loads	

Consignees Signature: Xavier Hall

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.