17-19 Whitworth Street West
Manchester
M1 5WG

0161 236 2394
manchester@curtins.com
www.curtins.com

Curtins

Our Ref: 076686-CUR-00-XX-T-GE-00003-P01

15/08/2023

Mr. J Hodder
Morgan Sindall
6th Floor, Anchorage 2
Manchester
M50 3YW

Dear James

Re. North Manchester General Hospital Temporary Car Park TCP05, Condition 14b Verification Report

1. Background and Information

Curtins completed a ground investigation at the site in June 2021. Ground conditions, generally, comprised topsoil or asphalt, overlying granular Made Ground, granular glaciofluvial sheet deposits and cohesive Glacial Till.

No potential visual or olfactory contamination was observed during the ground investigation works, and chemical analysis of soil samples did not identify any concentrations of contaminants of concern above relevant generic assessment criteria screening thresholds. Asbestos was identified in two locations, as described below:

- WS402 (0.25m) – Loose fibres of chrysotile (0.003% $^{w}/_{w}$)
- WS403 (0.15m) – Loose fibres of crocidolite and chrysotile (0.003% $^{w}/_{w}$)

Subsequent delineation investigation determined these occurrences to be isolated.

The ground investigation report determined that remediation was not required prior to construction of temporary car park TCP05. A Remediation Strategy was therefore not produced as no remedial actions were recommended.

2. Scope of Verification

This letter has been prepared to facilitate the discharge of Condition 14b, associated with planning application ref. 128905/FO/2020, prior to use of the multi-storey car park. Condition 14b states that:

"When the development commences, the development shall be carried out in accordance with the previously agreed Remediation Strategy and a Completion/Verification Report shall be submitted to and approved in writing by the City Council as local planning authority before the first occupation of the development."

3. Summary of Site Operations

Materials were excavated from the location of TCP05 to the be used as fill beneath soft landscaping adjacent to the multi-storey car park.

Curtins Consulting Ltd registered in England No. 2054159
Registered office: 51-55 Tithebarn Street, Liverpool, L2 2SB
Branch registered in Ireland No. 908625

During the works, a small piece of asbestos insulation board (AIB) was identified beneath the slab of an existing service trench. The material was tested to confirm the presence of asbestos. The results identified amosite and chrysotile asbestos board debris. A total of 2060 kg of asbestos containing materials were- removed by LAR Ltd. The following documents have been provided:

- Acorn Analytical Services, Certificate of Bulk Analysis for Asbestiform Materials, ref. B-41251
- Hazardous Waste Consignment Note ref. LARLTD/02466
- IOM Certificate of Analysis Ref. S32162
- Mark up showing location of Asbestos Insulation Board

Two soil samples were obtained from locations in proximity to the AIB, and screened for asbestos in a laboratory through qualitative methods. No asbestos materials were identified in these samples. This is confirmed in IOM Certificate of Analysis ref. S32162, enclosed within this letter.

4. Confirmation of No Unexpected Contamination

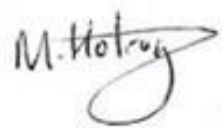
Morgan Sindall, the Principal Contractor during the groundworks and construction works, have confirmed that, except for asbestos insulation board identified beneath the slab of an existing service trench, no unexpected contamination was identified. This is confirmed in the enclosed correspondence.

5. Closure

This letter summarises the works undertaken, actions to mitigate against unexpected contamination which have been implemented, during groundworks activities.

We trust this cover letter provides satisfactory detail to allow for the discharge of Condition 14b for TCP05.

Yours faithfully



Matthew Holroyd
Senior Geo-Environmental Engineer

For and on behalf of
Curtins Consulting Ltd

Curtins Consulting Ltd
17-19 Whitworth Street West, Manchester, M1 5WG
0161 236 2394 manchester@curtins.com www.curtins.com

Curtins

Enclosed

- Acorn Analytical Services - Certificate of Bulk Analysis for Asbestiform Materials, ref. B41251
- Hazardous Waste Consignment Note ref. LARLTD/02466
- Mark up showing location of Asbestos Insulation Board
- IOM - Certificate of Analysis Ref. S32162
- Morgan Sindall - Correspondence confirming no unexpected contamination

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Certificate of Bulk Analysis for Asbestiform Materials

The samples were analysed using polarised light microscopy with dispersion staining in accordance with Acorn Analytical Services Limited documented in-house procedures based upon HSE document 'HSG248: The Analyst Guide'. Where Acorn Analytical Services Limited did not take the sample(s), the results given are based upon information supplied by those taking the sample(s). In this instance, Acorn Analytical Services Limited guarantees the accuracy of the sample analysis only. This test report should not be reproduced, except in full, without written permission from Acorn Analytical Services Limited. Opinions and interpretations raised on this certificate are outside the scope of UKAS accreditation, including product type.

Client and Site Details

Client Details	Site Address	Project Number
Manchester Foundation Trust Estates and Facilities Directorate North Manchester General Hospital Delaunays Road Crumpsall M8 5RB	North Manchester General Hospital Delaunays Road Crumpsall Manchester M8 5RB	B-41251

Samples Taken By

Samples Taken By	Company	Date Samples Received
Mark McRobert	Acorn Analytical Services Limited	21 March 2023

Bulk Analysis Results

Sample Reference	Product Type	Location	Description and Location of Material	Analysis Result
S001	Insulating Board	99 External	Board debris within building site ground works	Amosite, Chrysotile

Signatures

Analysed and Issued By	Signature	Date
Darren Whitham		23 March 2023

Bulk samples are retained at the laboratory for a period of 6 months.

The Hazardous Waste Regulations 2005: Consignment Note

WML-O2561

Waste Wave Limited

PART A Notification Details

1 Consignment Note Code: L A R L T D / 0 2 4 6 6

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

LAR, North Manchester General, Delaunays Rd, Crumpsall, Manchester M8 5RB

3 The waste will be taken to (name, address and postcode):

WhiteMoss Landfill, WhiteMoss RD South, Skelmersdale, WN8 9TH

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

As A2

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: *Demolition*

2 SIC for the process giving rise to the waste: 4 3 . 1 1 / 1

3 WASTE DETAILS (where more than one 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 of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
Bonded Asbestos	1 7 0 6 0 5	*2000*	*Chrysotile*	*>0.1%*	*Solid*	*HP7*	*35*
Fibrous Asbestos	1 7 0 6 0 1	*2000*	*Amosite*	*>0.1%*	*Solid*	*HP7*	*35*

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

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements
1 7 0 6 0 5	*III*	*2590*	*Asbestos/ Chrysotile*	*9*	*Double Bagged*
1 7 0 6 0 1	*III*	*2212*	*Asbestos/Amosite*	*9*	*Double Bagged*

PART C Carriers certificate

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

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and that I have been advised of any specific handling requirements.

1 Carrier Name: ~~Mike White~~ LEOSHAW

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Waste Wave LTD, White's Farm
Wilton Lane
Warrington
WA3 4BA

2 Carrier registration no./reason for exemption: *CBDU135684*

3 Vehicle registration no.(or mode of transport, if not road): J7WWL ~~J12WWL~~

Signature

Date 0 3 0 5 2 0 2 3 Time 0 6 0 0

PART D Consignor's certificate

I confirm that the company producing the waste has applied the waste hierarchy in priority order a) prevention; (b) preparing for re use; (c) recycling; (d) other recovery (e.g. energy recovery, waste reclamation); (e) disposal. Please Tick Box ☐

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

1 Consignor Name: Mariea Aldred

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Unit 5 Crossley Park Industrial Estate, Crossley Road, Stockport, SK4 5BF

Signature

Date 2 0 2 3 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 codes received	Quantity of each EWC code received (kg)	EWC code accepted / ~~rejected~~	Waste management operation (R or D code)
1 7 0 6 0 5	20600kg	✓	D05
1 7 0 6 0 1			

1 I received this waste at the address given in A4 on: Date 03052023 Time 0722

2 Vehicle registration no.(or mode of transport, if not road): J7WWL

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

DP3034YR

authorises the management of the waste described in B at the address given in A4.

Name: Dave Routledge

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Veolia Whitemoss Recycling Centre
Whitemoss Road
Skelmersdale, WN8 9TG
Permit No. DP3034YR

Signature Routledge

Date 03 05 2023 Time 0746

Disposal Advice / Weighbridge Ticket / Gate

Weighbridge Ticket: WML-W19731
Load Ref:
ConsignmentNo: LARLTD/02466
Customer Site Round No:
Customer Order No:
Veolia Order No: WML-O2561
Customer Container No:

Whitemoss Landfill Ltd
Whitemoss Landfill
Whitemoss Road South

Skelmersdale
United Kingdom WN8 9TH
Tel:
Permit No: DP3034YR

Customer	Haulier	Destination
Waste Wave Limited LAR, North Manchester General Delaunays Road Crumpsall Manchester M8 5RB Contact Name: SIC: 43110 Permit No:	Waste Wave Limited Wilton Lane WA3 4BA Waste Carrier No: CBDU135684 SIC: 39000 ABP Reg No:	Whitemoss Landfill Whitemoss Road South Skelmersdale WN8 9TH SIC: 38220 Permit No: DP3034YR

Date In: 03/05/2023
Date Out: 03/05/2023
Vehicle Reg: J7WWL
Vehicle Type:

Time In: 07:22
Time Out: 07:46
Container:

Tally No: 0092091
Tally No: 0092102
Service: Input

EWC Code & Waste Descriptions:	Quantity:	Gross Weight:	Tare Weight:	Net Weight:
170601 / Asbestos - fibrous insulation (170601*) HP7		18.5200	16.4600	2.0600

Signed on behalf of Veolia .....

Print Name DAVE ROUTLEDGE .....

Signed on behalf of Customer/Haulier .....

Print Name LEO SHAW .....

By signing the declaration above,the Customer confirms that it has fulfilled its duty to apply the waste hierarchy as required by Article 4(1) of the Waste Framework Directive 2008/98/EC and (where applicable) by regulation 12 of the Waste (England and Wales) Regulations 2011 or regulation 29 of the Waste Management Licensing (Scotland) Regulations 2011.


Note: Area demolished
Note: Building has been demolished.
Note: Area within fence demolished
Asphalt
Concrete
Grass
Gravel
Cables and pipes out
Pipes above ground
UTT Service Trench
Service Trench
Monitoring well
Tunnel Bore 2 (D)
Tunnel Bore 1 (D)
Pipebridge
Pipebridge
Pipebridge

working for a healthy and sustainable world

CERTIFICATE OF ANALYSIS

ANALYSIS REQUESTED BY: Acorn Analytical Services
The Old Print Works
Carr Street
Cleckheaton
West Yorkshire
BD19 5HG

CONTRACT NO: S32162

DATE OF ISSUE: 12.04.23

DATE SAMPLES RECEIVED: 03.04.23

DATE ANALYSIS COMPLETED: 12.04.23

SAMPLE DESCRIPTION: Two soil/loose aggregate samples each weighing approximately 0.4-0.6kg.

ANALYSIS REQUESTED: Qualitative and quantitative analysis of soil/loose aggregate samples for mass determination of asbestos.

METHODS:

Qualitative - The samples were analysed qualitatively for asbestos by polarised light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative - The analysis was carried out using our documented in-house method based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies *et al*, 1996) and HSG 248. Our method includes initial examination of the entire sample, detailed analysis of a representative sub-sample and quantification by hand picking/weighing and/or fibre counting/sizing as appropriate.

RESULTS:

Initial Screening

No asbestos was detected in either of the soil samples by stereo-binocular and polarised light microscopy.

A summary of the results is given in Table 1.

www.iom-world.org

Registered Address: Research Avenue North, Riccarton, Edinburgh, EH14 4AP, United Kingdom
Tel: 0131 449 8000 Fax: 0131 449 8084 Email: iom@iom-world.org

IOM CONSULTING LIMITED, registered in Scotland No. SC205670

UKAS TESTING
0374

CONTRACT NO: S32162
DATE OF ISSUE: 12.04.23

RESULTS: (cont.)

Table 1: Qualitative Results

Client Reference: B-41410 – North Manchester General Hospital, Delaunays Road, Crumpsall, Manchester, M8 5RB

IOM Sample Number	Client Sample Number	ACM Type Detected	PLM Result
S32162-1	Sample 1	-	No Asbestos Detected
S32162-2	Sample 2	-	No Asbestos Detected

Our detection limit for this method is 0.001%.

COMMENTS:

IOM Consulting cannot accept responsibility for samples that have been incorrectly collected or despatched by external clients.

Any opinions and interpretations expressed herein are out with the scope of our UKAS accreditation.

AUTHORISED BY: .....
D Third
Laboratory Analyst

Matthew Holroyd

From: Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Sent: 12 August 2023 12:38
To: Matthew Holroyd
Cc: Rob Allen; Park, Ian (MS)
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report
Attachments: B-41410 Soil Analysis Report - S32162.pdf; TCP05 - Bulk Certificate - B-41251.pdf; LARLTD-02466 Waste Note 230503.pdf; 20230324091013483.pdf

Hi Matt,

With regards to the asbestos found as part of TCP05. This was discovered under the slab of an existing service trench whilst undertaking the reduce level dig. The area was sealed off and Acorn brought in to test which was confirmed as AIB. Following the positive test the ground was then tested which came back negative. The AIB was then removed from site by LAR and works continued.

Associated as follows;

- AIB sample conformation TCP05 Bulk certificate – B-41251.
- Soil Sample Soil Analysis Report – S32162).
- The confirmed sample (AIB) was removed by LAR. See attached waste consignment note: LARLTD-02466 Waste Note 230503.
- Location Plan.

Regards,

Mark Allan
Senior Site Engineer
North West / Morgan Sindall Construction
M 07890591831
Connect with me on LinkedIn

MORGAN SINDALL CONSTRUCTION

Morgan Sindall Construction
6th Floor, Anchorage 2, Manchester
M50 3YW
T 0161 874 1000
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Please consider the environment before printing this email

From: Matthew Holroyd <Matthew.Holroyd@curtins.com>
Sent: 10 August 2023 11:11
To: Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Cc: Rob Allen <Rob.Allen@curtins.com>; Park, Ian (MS) <Ian.Park@morgansindall.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Hi Mark,

A letter for each site would be ideal, however if urgent an email for each should suffice, along with the requested documents.

Kind regards,

Matthew Holroyd
Senior Geo-Environmental Engineer

Tel: 0161 236 2394
matthew.holroyd@curtins.com
curtins.com

From: Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Sent: Wednesday, August 9, 2023 5:18 PM
To: Matthew Holroyd <Matthew.Holroyd@curtins.com>
Cc: Rob Allen <Rob.Allen@curtins.com>; Park, Ian (MS) <Ian.Park@morgansindall.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

HI Matthew,

Do you want an official letter or will a statement on email surfice?.

Regards,

Mark Allan
Senior Site Engineer
North West / Morgan Sindall Construction
M 07890591831
Connect with me on LinkedIn

MORGAN SINDALL CONSTRUCTION

Morgan Sindall Construction
6th Floor, Anchorage 2, Manchester
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From: Matthew Holroyd <Matthew.Holroyd@curtins.com>
Sent: 09 August 2023 15:09
To: Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Cc: Rob Allen <Rob.Allen@curtins.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Apologies Mark,

Please can you also provide the Waste Transfer Notes for the 37,700 T of materials removed by Maher for the reduced level dig?

Thanks,

Matthew Holroyd
Senior Geo-Environmental Engineer

Tel: 0161 236 2394
matthew.holroyd@curtins.com
curtins.com

From: Matthew Holroyd
Sent: Wednesday, August 9, 2023 2:19 PM
To: Mark.Allan@morgansindall.com
Cc: Rob Allen <Rob.Allen@curtins.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

HI Mark,

Further to Rob's previous e-mails, please can you provide a letter confirming that no unexpected contamination was identified during the works for TCP01.

I note that a couple of loads of asbestos were removed from the beneath the basement of the Limbert building (MSCP), and AIB removed during reduced level digs for TCP05. Please can you provide any location plans, photo records, asbestos management measures etc. which confirm this material was fully removed, and include this in your letter?

Kind regards,

Matthew Holroyd
Senior Geo-Environmental Engineer

Tel: 0161 236 2394
matthew.holroyd@curtins.com
curtins.com

From: Matthew Holroyd
Sent: Friday, August 4, 2023 11:00 AM
To: Rebecca Steven <Rebecca.Steven@curtins.com>
Cc: Rob Allen <Rob.Allen@curtins.com>
Subject: FW: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Matthew Holroyd
Senior Geo-Environmental Engineer

Tel: 0161 236 2394
matthew.holroyd@curtins.com
curtins.com

From: Rob Allen <Rob.Allen@curtins.com>
Sent: Thursday, August 3, 2023 12:04 PM
To: Matthew Holroyd <Matthew.Holroyd@curtins.com>
Cc: Jonathan Lord <Jonathan.Lord@curtins.com>; Niall Farnworth <Niall.Farnworth@curtins.com>
Subject: FW: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Hi Matt,

See below information for the completion reports for the MSCP and temporary car parks which Dan can look to complete the verification reports.

Regards

Rob

Rob Allen (He/him)
Associate

Tel: 0161 236 2394
rob.allen@curtins.com
curtins.com

From: Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Sent: Thursday, August 3, 2023 11:42 AM
To: Hodder, James (MSC) <James.Hodder@morgansindall.com>; Rob Allen <Rob.Allen@curtins.com>; Gaskell, Jon (MS) <Jon.Gaskell@morgansindall.com>; David Sandbrook <David.Sandbrook@curtins.com>; Niall Farnworth <Niall.Farnworth@curtins.com>; Park, Ian (MS) <Ian.Park@morgansindall.com>
Cc: Spencer, Tim (MSC) <Tim.Spencer@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Hi Rob,

Please find attached information as follows;

TCP01 –

- Material removed by PP O'Connor – (see attached waste transfer note No: 005973) 1500 tonnes

MSCP –

- As part of the initial site clearance Japanese knot weed was removed by Beechwood.
    - Waste transfer note: PPOC 005471. 20 Tonnes
    - Waste transfer note: Salford Grabs – Waste transfer to follow today.

- Demolition material of Limbert House removed by PP O'Connor -
    - Waste transfer note: PPOC 005472 500 Tonnes
    - Waste transfer note: PPOC 005473 400 Tonnes

- Asbestos located under Limbert basement was removed off site by PPOC.
    - Waste transfer notes: PPOC Asbestos removal 40 Tonnes

- Material removed by Maher's as part of the reduced level dig.
    - See attached Waste transfer notes Ref: Maher MSCP waste transfer notes approx. 37,700 Tonnes

TCP05 –

- All material excavated used as fill for the MSCP landscaping.
- During reduce level works a small piece of AIB was found. (see attached TCP05 Bulk certificate – B-41251).
- The soil was tested and no further asbestos was detected. (see attached Soil Analysis Report – S32162).
- The confirmed sample (AIB) was removed by LAR (See attached waste consignment note: LARLTD-02466 Waste Note 230503)

Please do not hesitate to contact me if you require any further information?.

Regards,

Mark Allan
Senior Site Engineer
North West / Morgan Sindall Construction
M 07890591831
Connect with me on LinkedIn

Morgan Sindall Construction
6th Floor, Anchorage 2, Manchester
M50 3YW
T 0161 874 1000
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From: Hodder, James (MSC) <James.Hodder@morgansindall.com>
Sent: 07 July 2023 09:51
To: Rob Allen <Rob.Allen@curtins.com>; Gaskell, Jon (MS) <Jon.Gaskell@morgansindall.com>; David Sandbrook <David.Sandbrook@curtins.com>; Niall Farnworth <Niall.Farnworth@curtins.com>; Park, Ian (MS) <Ian.Park@morgansindall.com>; Allan, Mark (MS) <Mark.Allan@morgansindall.com>
Cc: Spencer, Tim (MSC) <Tim.Spencer@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>; North Manchester General Hospital <13.nmgh@morgansindall.com>
Subject: RE: 13Z001-NMGH: SI Report MSCP - Condition 14b Ground Contamination Verification Report

Hi Rob,