

8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

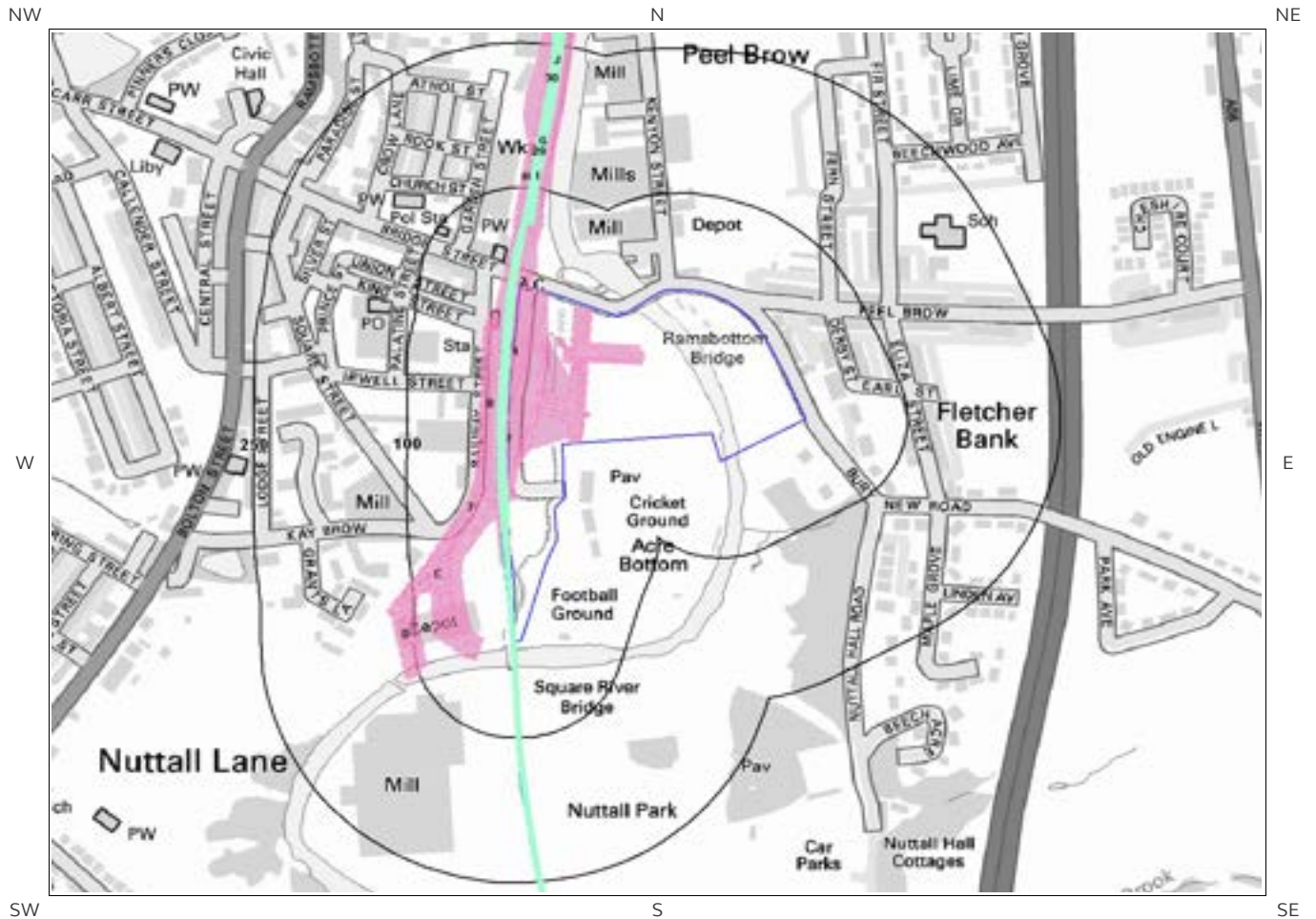
4

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
1	0	On Site	379295 417181	Railway Sidings	1955
2	0	On Site	379295 417181	Railway Sidings	1968
3A	0	On Site	379360 416722	Railway Sidings	1927
4A	0	On Site	379360 416722	Railway Sidings	1908
5A	0	On Site	379360 416722	Railway Sidings	1948
6A	0	On Site	379360 416722	Railway Sidings	1891

ID	Distance (m)	Direction	NGR	Details	Date
14E	0	On Site	379283 416687	Railway Sidings	1962
15	0	On Site	379339 416731	Railway Sidings	1962
16E	0	On Site	379290 416640	Railway Sidings	1891
17F	0	On Site	379291 416643	Railway Sidings	1910
18F	0	On Site	379291 416643	Railway Sidings	1929
19F	0	On Site	379291 416643	Railway Sidings	1938
7	6	W	379277 416629	Railway Sidings	1908
8B	9	W	379281 416719	Railway Sidings	1927
9B	9	W	379281 416719	Railway Sidings	1948
20G	11	N	379300 417247	Railway Sidings	1938
21G	13	N	379267 417247	Railway Sidings	1891
22G	13	N	379299 417248	Railway Sidings	1910
23G	13	N	379299 417248	Railway Sidings	1929
24	52	W	379194 416519	Railway Sidings	1962
10C	55	W	379236 416546	Railway Sidings	1948
11C	55	W	379236 416546	Railway Sidings	1927
25H	57	N	379316 416951	Railway Sidings	1962
26H	58	N	379328 416952	Railway Sidings	1962
27I	64	N	379328 416954	Railway Sidings	1992
28I	64	N	379328 416954	Railway Sidings	1994
12D	98	W	379199 416481	Railway Sidings	1927
13D	98	W	379199 416481	Railway Sidings	1948
29	111	N	379330 416978	Railway Sidings	1978
30	155	N	379282 417397	Railway Sidings	1962
31J	191	N	379347 417079	Railway Sidings	1994
32J	191	N	379347 417079	Railway Sidings	1992
33J	191	N	379347 417079	Railway Sidings	1996

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Name	Type
2	W	Not given	Preserved
2	W	Not given	Preserved
2	W	Not given	Preserved
2	W	Not given	Preserved
2	W	Not given	Preserved
2	W	Not given	Preserved
3	W	Not given	Multi Track
3	W	Not given	Multi Track
32	S	Not given	Preserved
32	S	Not given	Preserved
62	N	Not given	Preserved
62	N	Not given	Preserved
64	N	Not given	Multi Track
64	N	Not given	Multi Track
126	N	Not given	Multi Track
126	N	Not given	Multi Track
126	N	Not given	Multi Track
126	N	Not given	Multi Track
140	N	Not given	Preserved
140	N	Not given	Preserved
192	N	Not given	Multi Track
192	N	Not given	Multi Track

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? No

Is the study site within 500m of the route of the Crossrail 1 rail project? No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com



British Geological Survey Enquiries

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email: enquiries@bgs.ac.uk
Web: www.bgs.ac.uk



BGS Geological Hazards Reports and general geological enquiries

British Gypsum

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX



The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk



Public Health England

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
<https://www.gov.uk/government/organisations/public-health-england>
Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000



Johnson Poole & Bloomer Limited

Harris and Pearson Building, Brettell Lane
Brierley Hill, West Midlands
DY5 3LH
Tel: +44 (0) 1384 262 000
Email: enquiries.gs@jpb.co.uk
Website: www.jpb.co.uk



Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505
Website: <http://www.ordnancesurvey.co.uk/>



Getmapping PLC

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444
Website: <http://www1.getmapping.com/>



Peter Brett Associates
Caversham Bridge House
Waterman Place
Reading
Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail: reading@pba.co.uk
Website: <http://www.peterbrett.com/home>



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<https://www.groundsure.com/terms-and-conditions-feb11-2019>



The Coal
Authority

Consultants

Coal Mining Report

379433, 416756
Greater Manchester

Date of enquiry:	9 May 2019
Date enquiry received:	9 May 2019
Issue date:	9 May 2019

Our reference:	51002107805001
Your reference:	GS-6015653

Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

379433, 416756
Greater Manchester

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

None available.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
LOWER HOLCOMBE BROOK	Coal	Yes	Within	N/A	100

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 

Outcrop (Conjectured) 

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



APPENDIX E

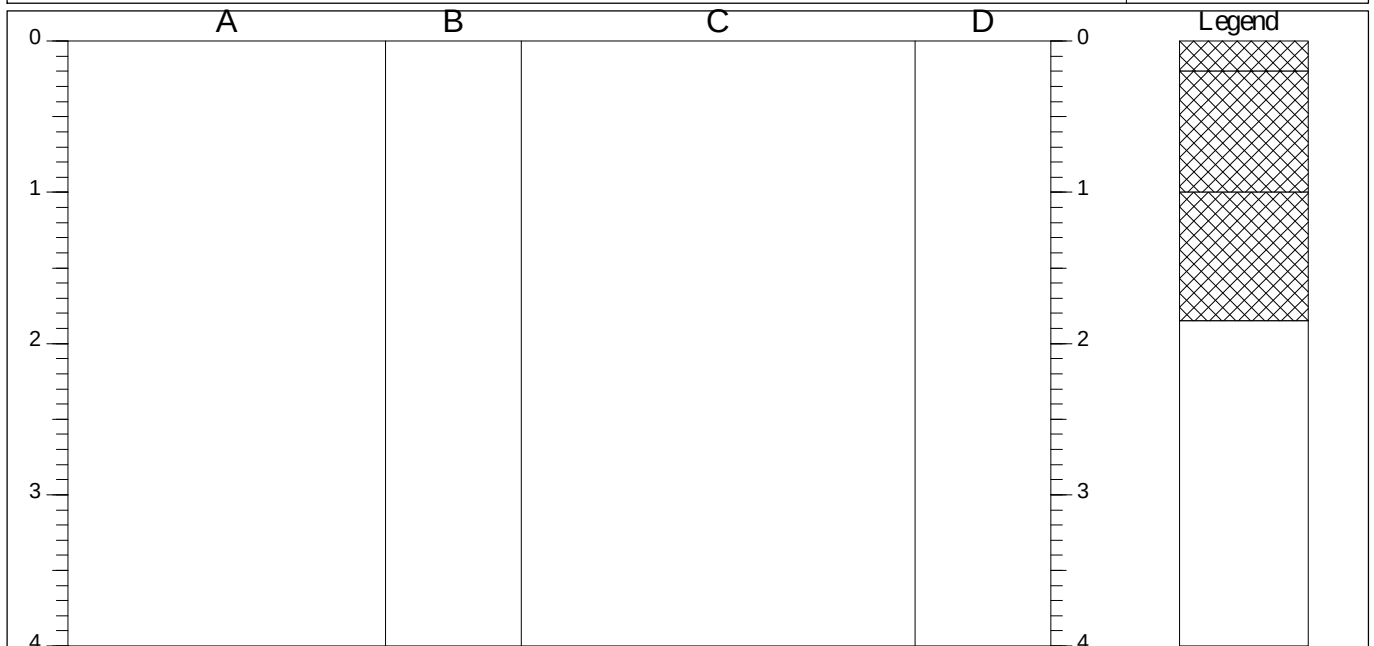
(i) Exploratory Hole Logs



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

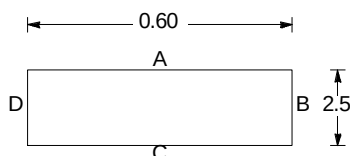
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP1
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.20		MADE GROUND: Maintained grass over brown slightly clayey gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of rootlets, brick, concrete, metal, timber, paper and textiles.	0.10	ES		
0.20-1.00						
1.00-1.85		MADE GROUND: Loose brown slightly clayey very gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of brick, concrete, metal, timber, paper and textiles. Occasional sandstone boulders noted.	1.00	ES		
		MADE GROUND: Soft bluish brown very sandy silty gravelly cobbly CLAY with common boulders of concrete and sandstone. Gravel and cobbles are fine to coarse angular to subangular of brick, concrete, metal, timber, paper and textiles. Occasional sandstone b				

Shoring/Support:
Stability: Collapse noted within Made Ground below topsoil. pit widening.



GENERAL REMARKS

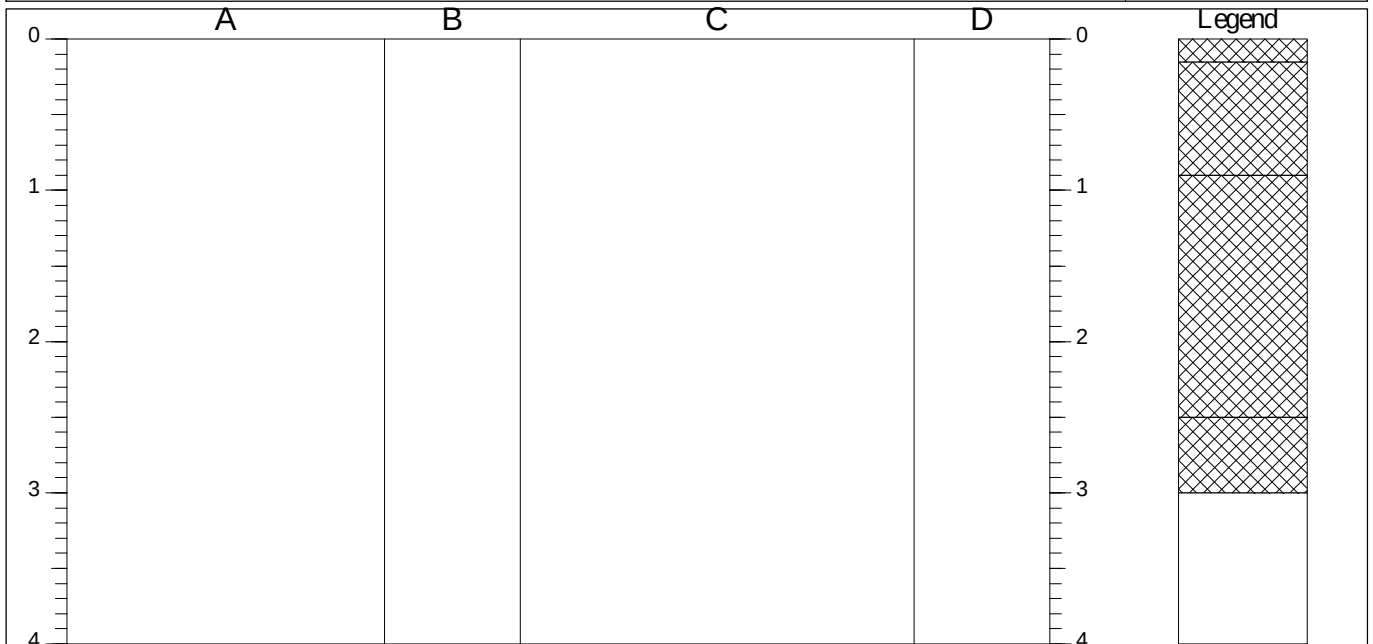
Hydrocarbon / organic odour from 1.00mbgl.
Concrete boulders noted 1.85mbgl.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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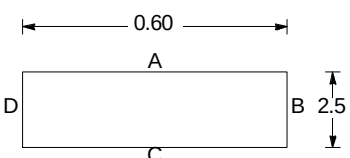
AGS3 UK TP 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3_1.GDT 8/7/19

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP2
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Maintained grass over brown slightly clayey gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of rootlets, brick, concrete, metal, timber, paper and textiles.			
0.15-0.90		TOPSOIL			
0.90-2.50		MADE GROUND: Loose brown slightly clayey very gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of brick, concrete, glass, plastic, metal, timber, paper and textiles. Occasional sandstone boulders noted.	0.50	ES	
		MADE GROUND: Soft bluish brown very sandy silty gravelly cobbly CLAY with common boulders of concrete and sandstone. Gravel and cobbles are fine to coarse angular to subangular of brick, plastic, glass, concrete, metal, timber, paper and textiles. Occasional sandstone boulders. Seepage at 1.70mbgl.			
2.50-3.00		MADE GROUND: Soft grey very sandy gravelly CLAY. Gravel is fine to coarse angular to subrounded of paper pulp, glass, metal, plastic and rare ash.			

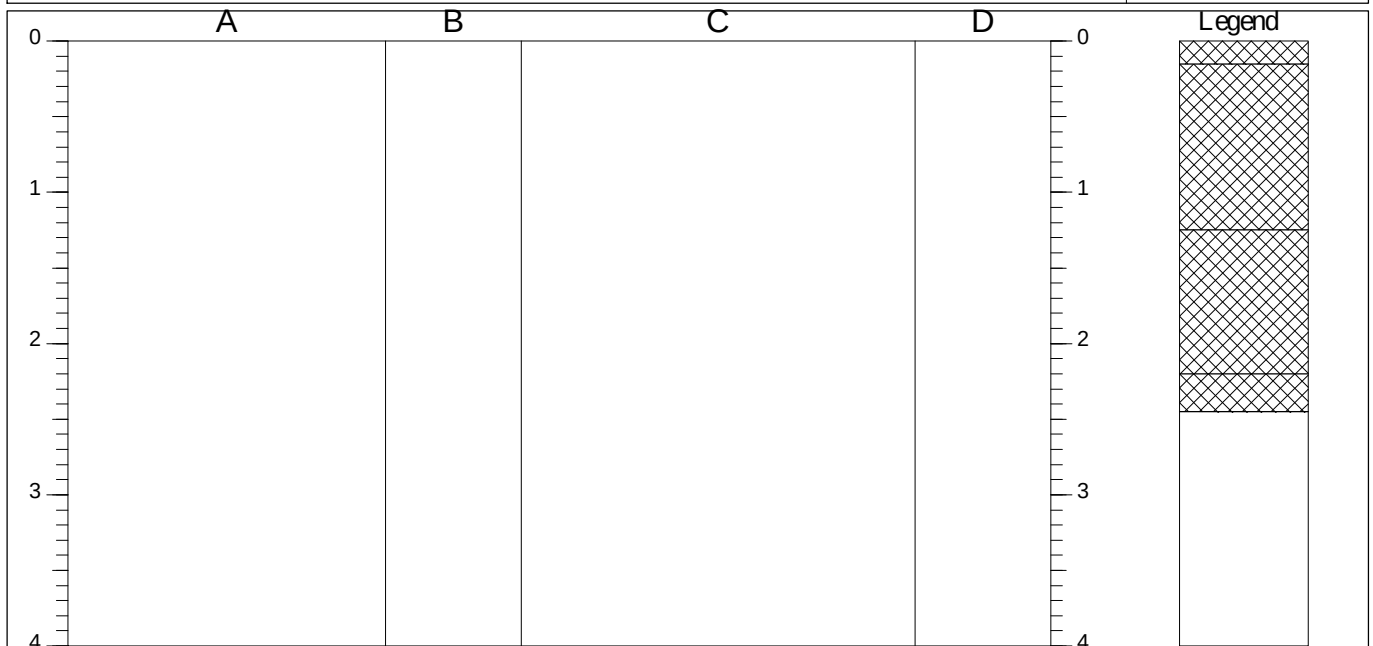
Shoring/Support: Stability: Collapse noted within Made Ground below topsoil. pit widening.		GENERAL REMARKS Hydrocarbon / organic odour from 1.00mbgl. Concrete boulders noted 0.90mbgl.	
			
All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP3
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Maintained grass over brown slightly clayey gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of rootlets, brick, concrete, metal, timber, paper and textiles.	0.15	ES	
0.15-1.25		TOPSOIL			
1.25-2.20		MADE GROUND: Loose brown slightly clayey very gravelly occasionally cobbly fine to coarse SAND. Gravel and cobbles are fine to coarse angular to subangular of brick, concrete, glass, asphalt, plastic, metal, timber, paper and textiles. Occasional sandstone boulders noted.	1.50	ES	
2.20-2.45		MADE GROUND: Soft bluish brown very sandy silty gravelly cobbly CLAY with common boulders of concrete and sandstone. Gravel and cobbles are fine to coarse angular to subangular of brick, plastic, glass, concrete, metal, timber, paper and textiles. Occasional sandstone boulders.			
		MADE GROUND: Brown very sandy clayey GRAVEL. Gravel is fine to coarse angular to subagular of ash, pulp and brick.			

Shoring/Support: Stability: Hole terminated due to collapse.	GENERAL REMARKS Dry

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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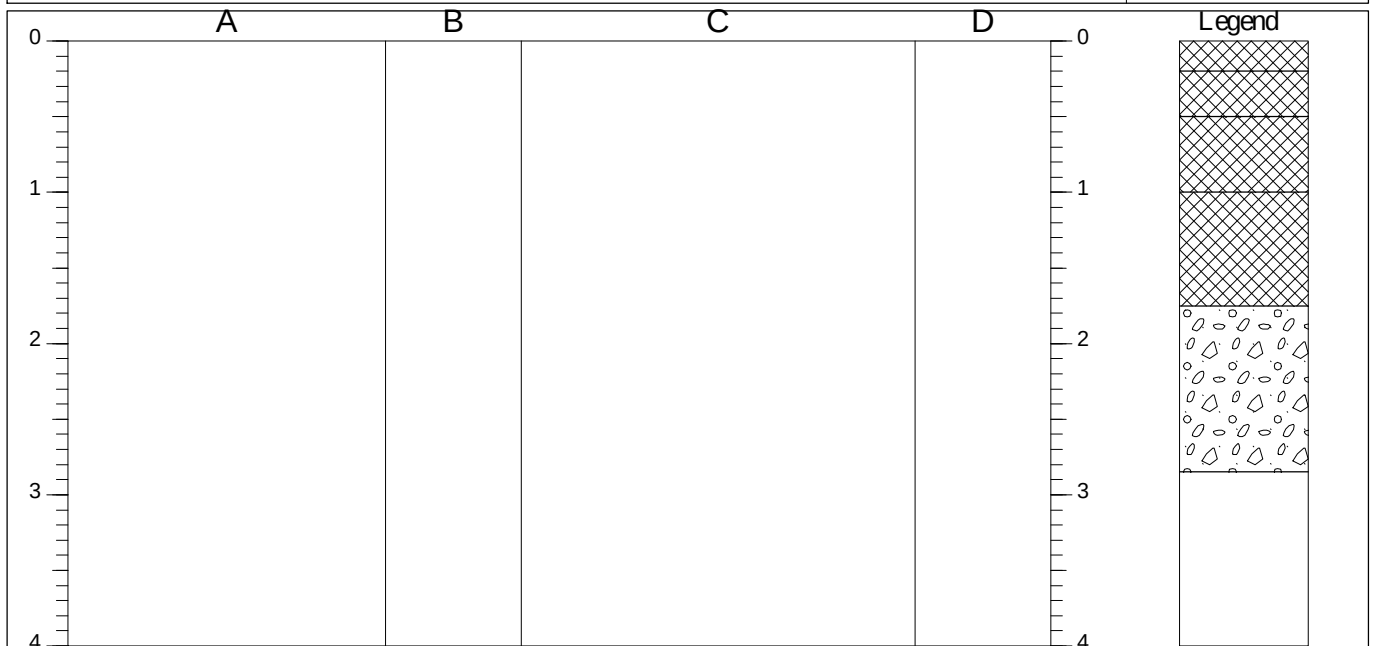
AGS3 UK TP 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3_1.GDT 8/7/19



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP4
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.50	ES	
0.20-0.50		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.50-1.00		MADE GROUND: Loose to medium dense brown and black very sandy GRAVEL. Gravel is fine to medium angular to subrounded of sandstone and ash.	1.00	ES	
1.00-1.75		MADE GROUND: Interbedded loose to medium dense dark brown, brown and black fine to coarse fine to coarse SAND & GRAVEL. Gravel is fine to coarse angular to subrounded of brick, sandstone and ash.			
1.75-2.85		Medium dense brownish orange slightly clayey very sandy GRAVEL. Gravel is fine to coarse angular to subrounded of sandstone. Water strike at 2.65mbgl. Cobbles present with depth.			

Shoring/Support: Stability: Stable		GENERAL REMARKS Location adjacent to formerly leaking IBC. Brown 'rubbery' substance noted around pit at surface. Water strike at 2.65mbgl.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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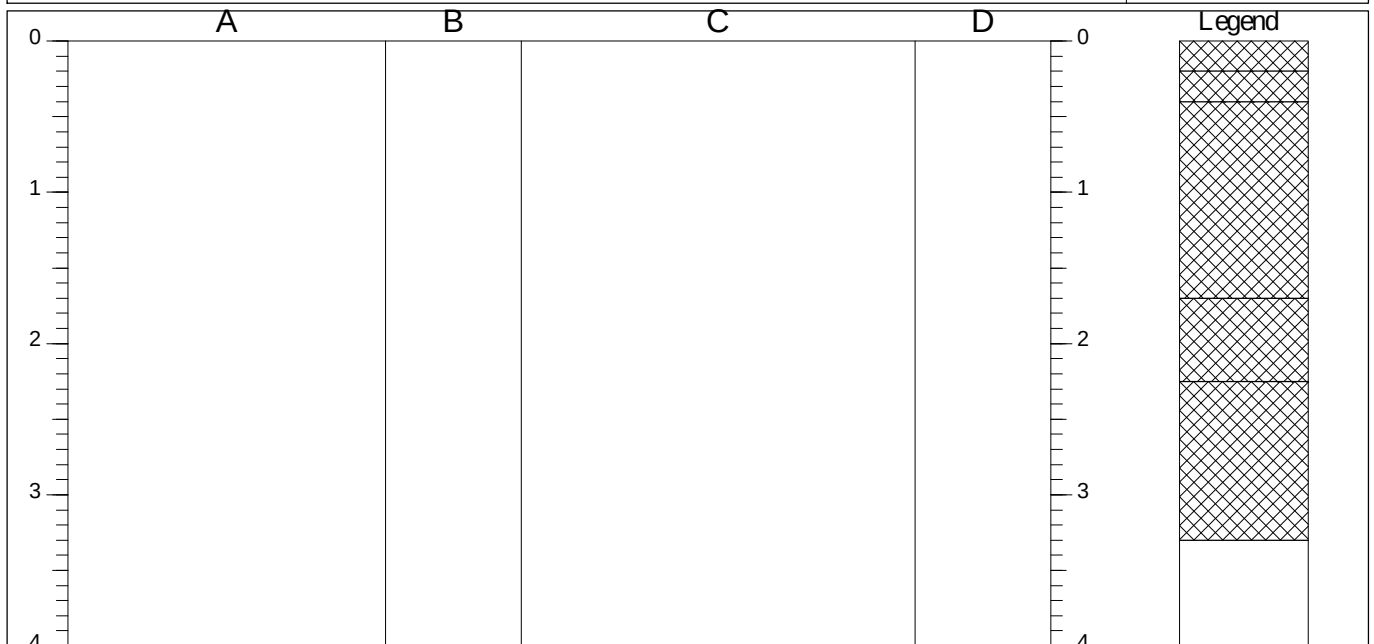
AGS3 UK TP 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3_1.GDT 8/7/19



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP5
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.40	ES	
0.20-0.40		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.40-1.70		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone. 'Geogrid' at 0.60mbgl.			
1.70-2.25		MADE GROUND: Loose to medium dense black fine to coarse very gravelly occasionally cobbly SAND. Gravel is fine to coarse angular to subrounded of of ash, clinker, brick and occasional clinker. Water strike at base.	1.70	ES	
2.25-3.30		Possible MADE GROUND: Soft greyish brown and black very sandy slightly clayey SILT. Slight organic odour noted.	2.25 2.25	D ES	

Shoring/Support: Stability: Stable		GENERAL REMARKS Water strike at 2.25mbgl. Slight organic odour from 2.25mbgl.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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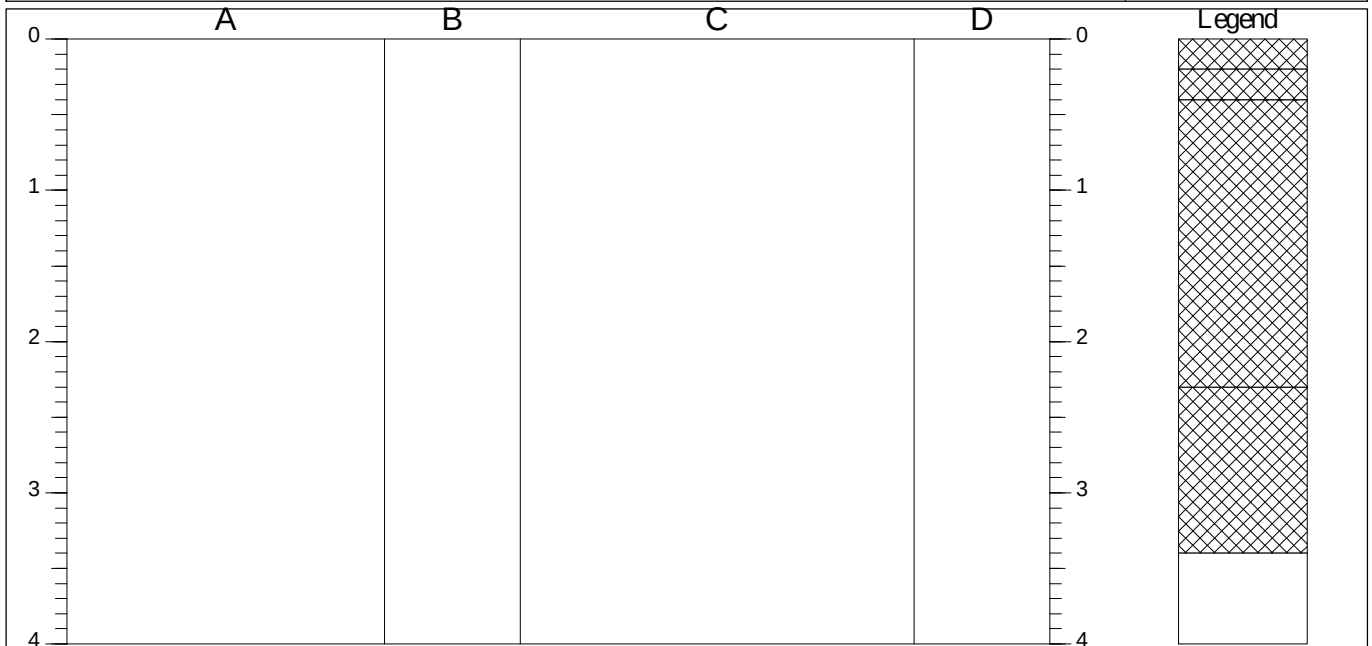
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CH5 2LY
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TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP6
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.50	ES	
0.20-0.40		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.40-2.30		MADE GROUND: Loose to medium dense black fine to coarse very gravelly occasionally cobbly SAND. Gravel is fine to coarse angular to subrounded of of ash, clinker, brick and occasional clinker. Occasional orange brown sand laminations.			
2.30-3.40		Possible MADE GROUND: Soft greyish brown and black very sandy slightly clayey SILT.			

Shoring/Support: Stability: Stable 	GENERAL REMARKS Dry
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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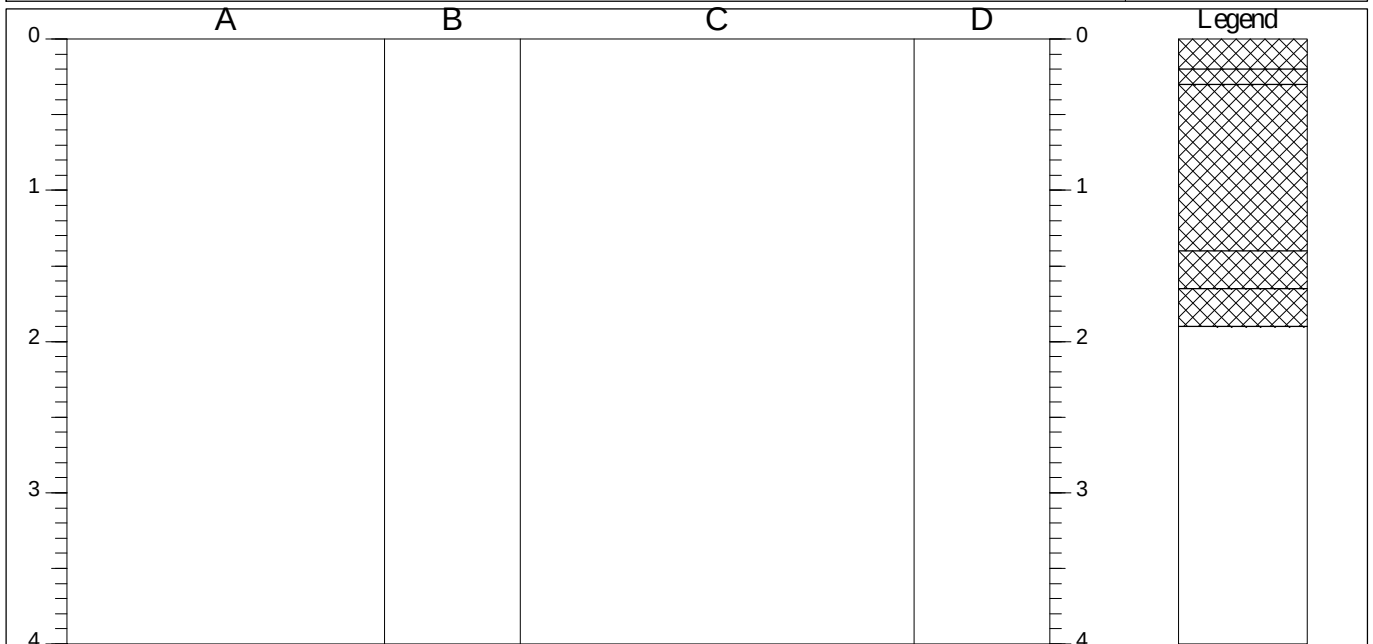
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CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP7
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.50	ES	
0.20-0.30		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.30-1.40		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.			
1.40-1.65		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.			
1.65-1.90		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone. Large concrete pad or slab in half of pit.			

Shoring/Support: Stability: Stable 	GENERAL REMARKS Concrete pad / slab covering half of pit at 1.90mbgl.
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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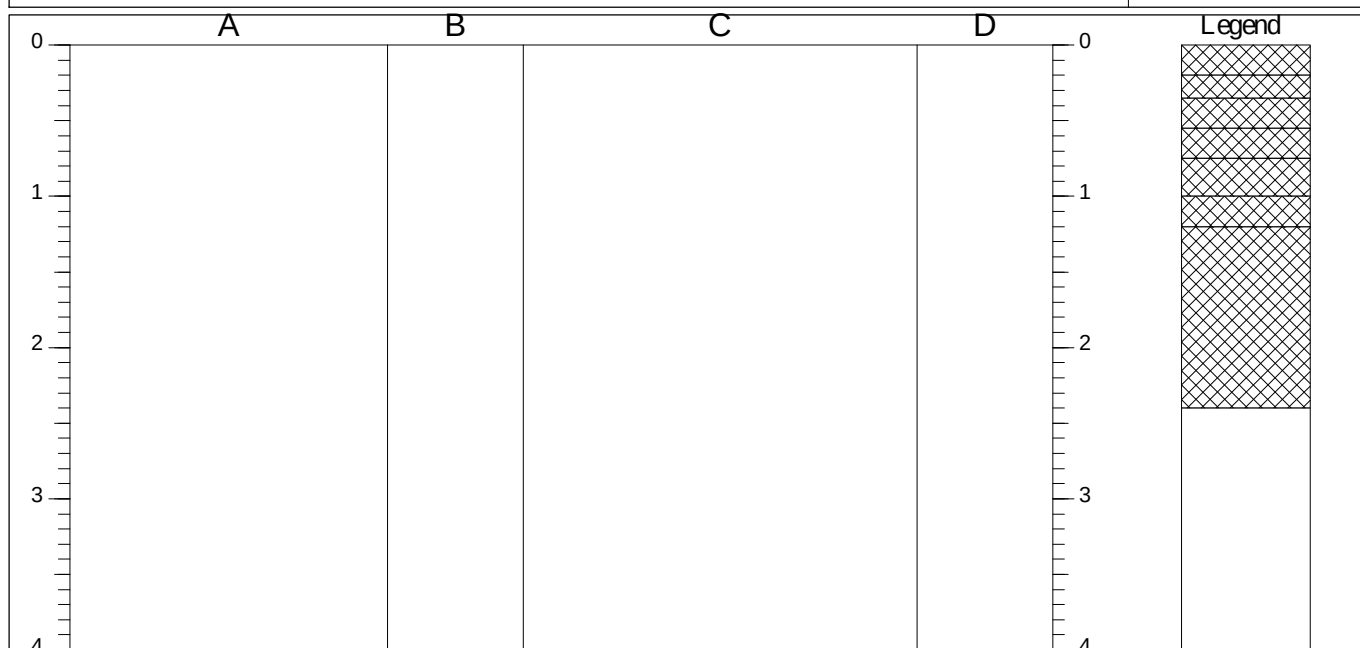
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Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP8
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	1.00	ES	
0.20-0.35		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.35-0.55					
0.55-0.75		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.			
0.75-1.00		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.			
1.00-1.20		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone. Occasional sections of sandstone flags.			
1.20-2.40		MADE GROUND: Loose to medium dense black fine to coarse very gravelly cobbly SAND. Gravel is fine to coarse angular to subrounded of ash, clinker, brick and occasional clinker. Sections of footings noted. Cobbles of brick.			
		MADE GROUND: Loose sandy gravelly COBBLES with occasional footing / wall sections. Gravel and cobbles are fine to coarse of brick. Hole appears to be within a round structure, possibly former chimney base, curved walls noted. Water strike at 2.10mbgl, water noted as black with hydrocarbon odour and sheen.			

Shoring/Support: Stability: Stable 	GENERAL REMARKS Possible chimney base at 1.20mbgl. Water strike at 2.10mbgl, black water strong hydrocarbon odour and sheen. Hole aborted due to risk from water.
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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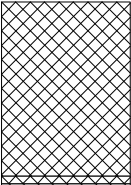
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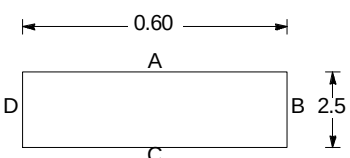
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CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP9
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

0	A	B	C	D	0	Legend
1					1	
2					2	
3					3	
4					4	

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-1.15		MADE GROUND: Loose sandy GRAVELS and COBBLES. Gravel and cobbles fine to coarse brick, concrete, metal, plastic, rubber and sections of footings.	0.20	ES	
1.15-1.20		MADE GROUND: Concrete slab- very hard, possible machine base.			

Shoring/Support: Stability: Stable	GENERAL REMARKS Hole terminated on very hard concrete slab. Cannot be broken out by JCB.
	

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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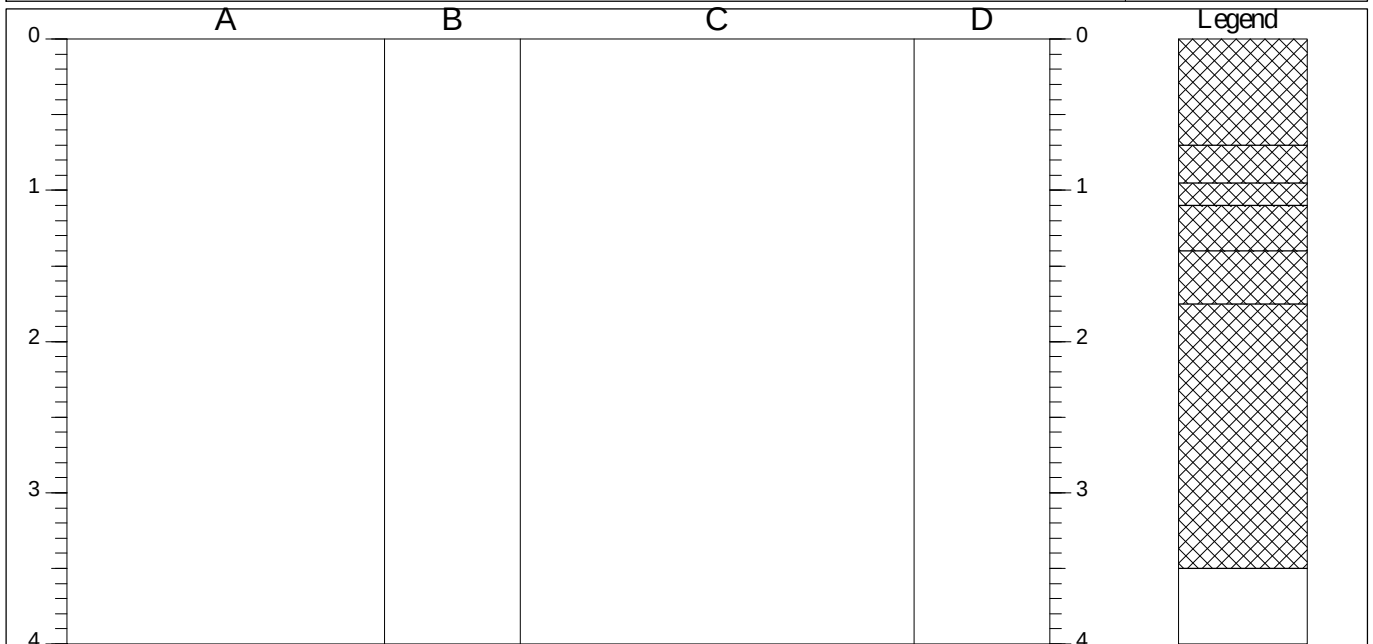
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Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP10
Job No 18ECH016	Date 25-06-19 25-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.70		MADE GROUND: Loose sandy GRAVELS and COBBLES. Gravel and cobbles fine to coarse brick, concrete, metal, plastic, rubber and sections of footings.	0.50	ES	
0.70-0.95		MADE GROUND: Metal flooring tiles 40x40cm over concrete slab.			
0.95-1.10		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.			
1.10-1.40		MADE GROUND: Soft brown clayey sandy SILT.	1.75	ES	
1.40-1.75		MADE GROUND: Loose to medium dense red gravelly SAND. Gravel is fine to coarse angular to subangular of brick and ash. SAND is of crushed brick.			
1.75-3.50		Possible MADE GROUND: Soft greyish brown and black clayey sandy SILT. Damp from 1.75m and water strike at 3.50mbgl. Possible reworked.			

Shoring/Support: Stability: Stable		GENERAL REMARKS Damp from 1.75mbgl. Water strike at 3.50mbgl

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used JCB 3CX	Logged By KR
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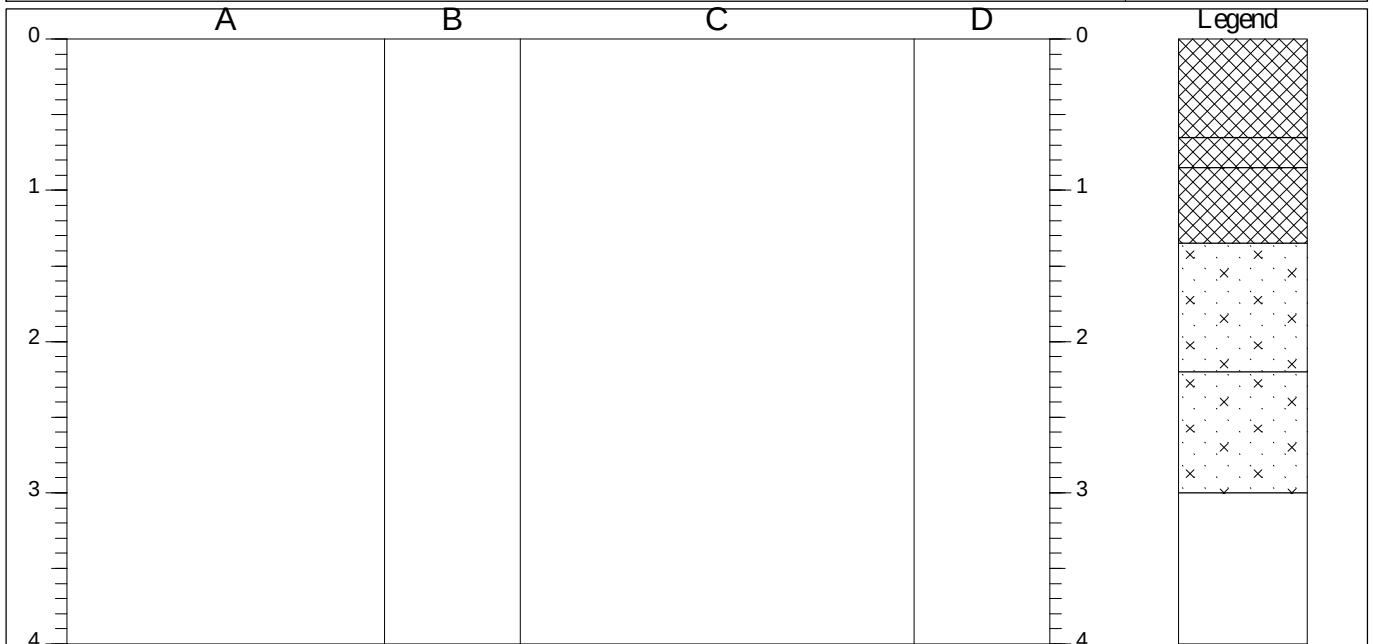
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Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP11
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.65		MADE GROUND: Brown fine to coarse SAND & GRAVEL. Gravel is fine to coarse angular to subrounded of sandstone, brick and concrete.	0.50	ES	
0.65-0.85		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course. Noted as being very hard.			
0.85-1.35		MADE GROUND: Loose mixed lithology SAND & GRAVEL with occasional cobbles. Gravel and cobbles are fine to coarse angular to subrounded of brick, concrete, metal, plastic and other demolition type materials.	1.40	ES	
1.35-2.20		Medium dense greyish brown silty SAND. Strata is slightly damp.			
2.20-3.00		Medium dense grey silty SAND. Strata is slightly damp.			

Shoring/Support: Stability: Stable 	GENERAL REMARKS Hole undertaken adjacent to slab. Observed to be at least 650mm thick.
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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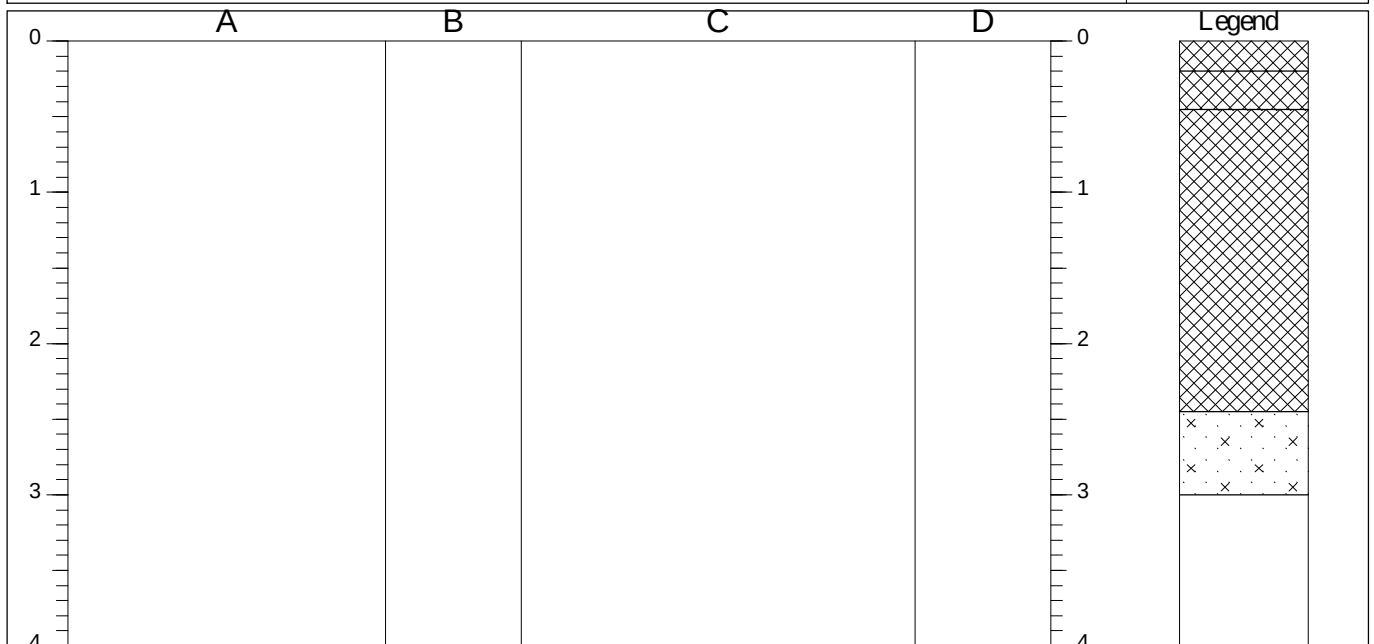
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CH5 2LY
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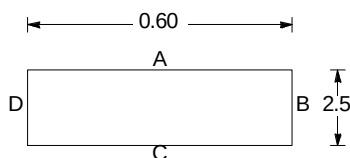
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP12
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.45	ES	
0.20-0.45		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.45-2.45		MADE GROUND: Loose to medium dense brown, black and orangish brown fine to coarse SAND & GRAVEL angular to subangular of brick, concrete, ash and metal. Concrete slab noted in southern quarter of pit at 1.00mbgl.			
2.45-3.00		Medium dense brown and grey very silty SAND.			

Shoring/Support: Stability:	GENERAL REMARKS Concrete slab in southern corner of pit at 1.00mbgl.
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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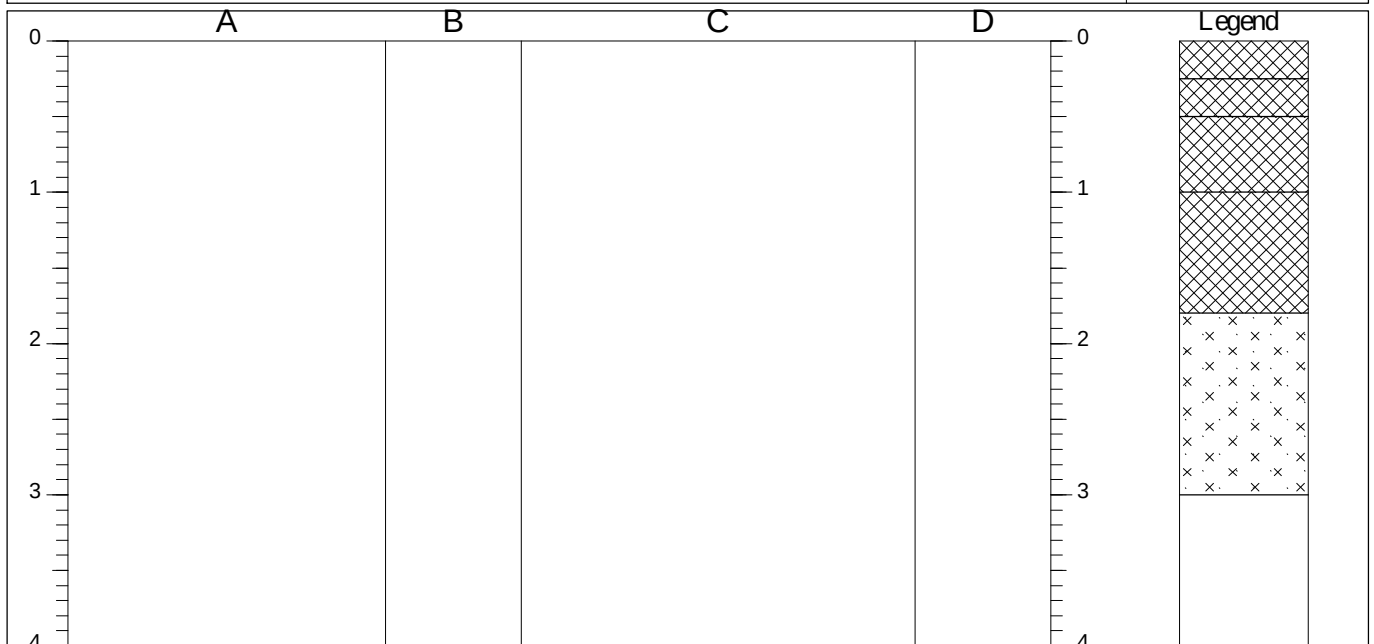
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CH5 2LY
Telephone: 01244 288179

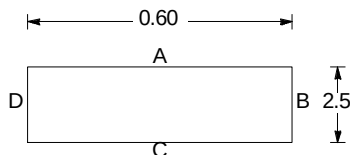
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP13
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.25		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	1.00	ES		
0.25-0.50		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.				
0.50-1.00		MADE GROUND: Loose to medium dense brown and black very sandy GRAVEL. Gravel is fine to medium angular to subrounded of sandstone and ash.				
1.00-1.80		MADE GROUND: Soft black, grey and reddish brown clayey very sandy SILT.				
1.80-3.00		Soft grey very sandy SILT. Damp from 2.50mbgl.				

Shoring/Support: Stability: Made Ground Unstable	GENERAL REMARKS
	Damp from 2.50mbgl.



All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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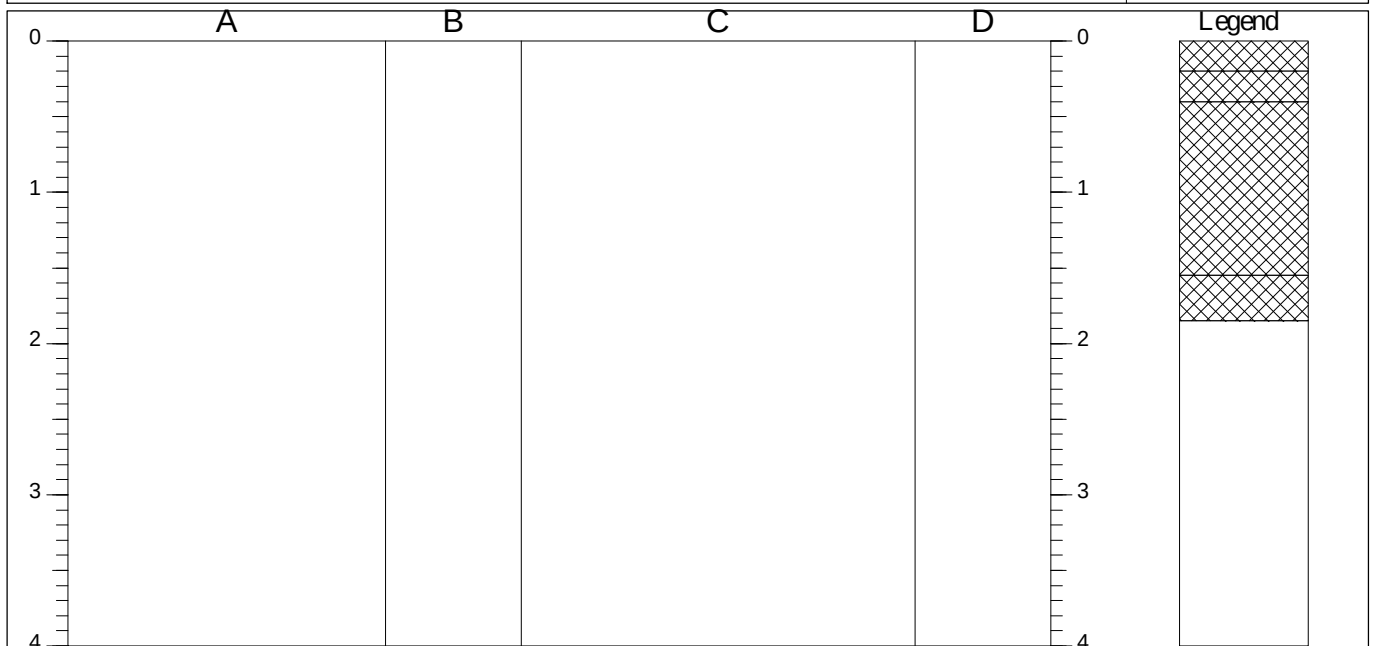
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Telephone: 01244 288179

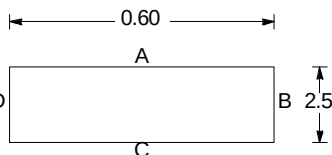
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP14
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.50	ES	
0.20-0.40		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.40-1.55		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL with common cobbles. Gravel is fine to medium angular to subangular of sandstone, brick, ash and metal with sections of footings. Possible basement strucutre.			
1.55-1.85		MADE GROUND: Concrete slab with reinforcement on eastern half. Loose to medium dense clayey silty SAND on other half.	1.55	ES	

Shoring/Support: Stability: Stable	GENERAL REMARKS Backfilled voids, possible basement.



All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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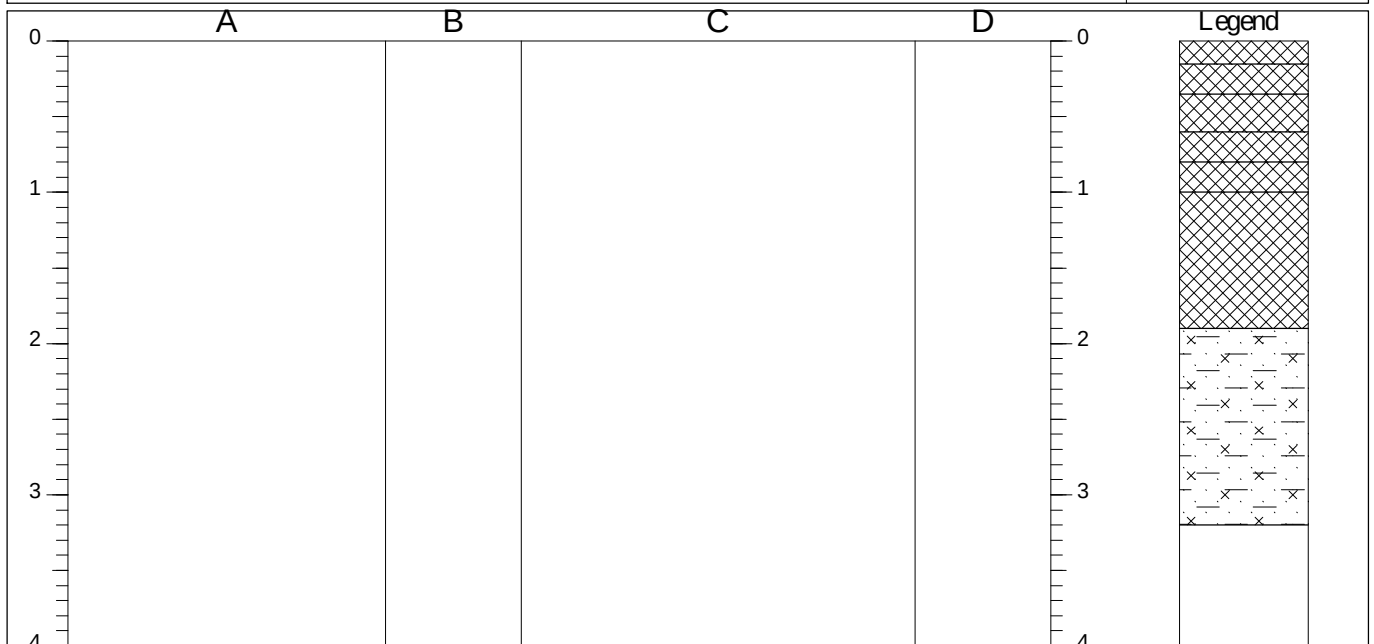
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CH5 2LY
Telephone: 01244 288179

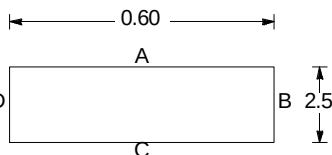
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP15
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	1.00	ES	
0.15-0.35		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
0.35-0.60		MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.			
0.60-0.80		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.			
0.80-1.00		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.			
1.00-1.90		MADE GROUND: Loose to medium dense brown and black very sandy GRAVEL. Gravel is fine to medium angular to subrounded of sandstone and ash.			
1.90-3.20		Medium dense brown fine to medium silty clayey SAND.	1.90	ES	

Shoring/Support: Stability: Stable	GENERAL REMARKS
	Dry



All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

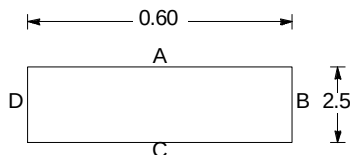
TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP16
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

0	A	B	C	D	0	Legend
1					1	
2					2	
3					3	
4					4	

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.60		MADE GROUND: Loose black and red SAND, GRAVEL & COBBLES of brick, concrete, plastic, metal and other demolition waste materials. Standing water at 0.60mbgl. Strong hydrocarbon and 'waste' odours. Hole aborted due to potential for contamination spreading.	0.60	ES	

Shoring/Support: Stability: Stable	GENERAL REMARKS Hole undertaken between hard concrete slabs. Standing water at 0.60mbgl, no flow. Strong hydrocarbon and 'waste' odour with sheen and possible free product.
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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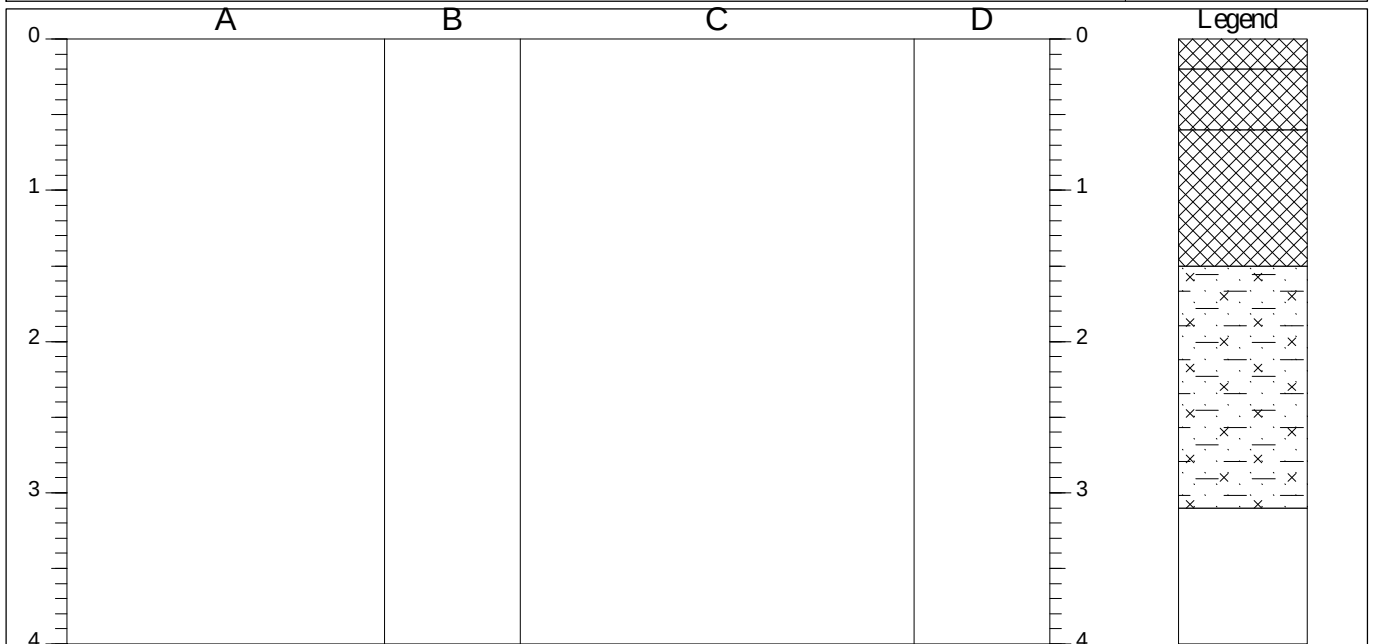
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TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP17
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	0.60	ES	
0.20-0.60		MADE GROUND: Loose to medium dense yellowish brown and black fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone, brick and ash. Ash becoming more common with depth.			
0.60-1.50		MADE GROUND: Loose to medium dense fine to coarse SAND & GRAVEL. Gravel is fone to coarse angular to subangular of ash and brick.			
1.50-3.10		Loose to medium dense brown clayey silty fine to medium SAND. Occasional orange mottle noted. Reducing cohesive content with depth.	1.50	ES	

Shoring/Support: Stability: Stable 	GENERAL REMARKS Dry
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All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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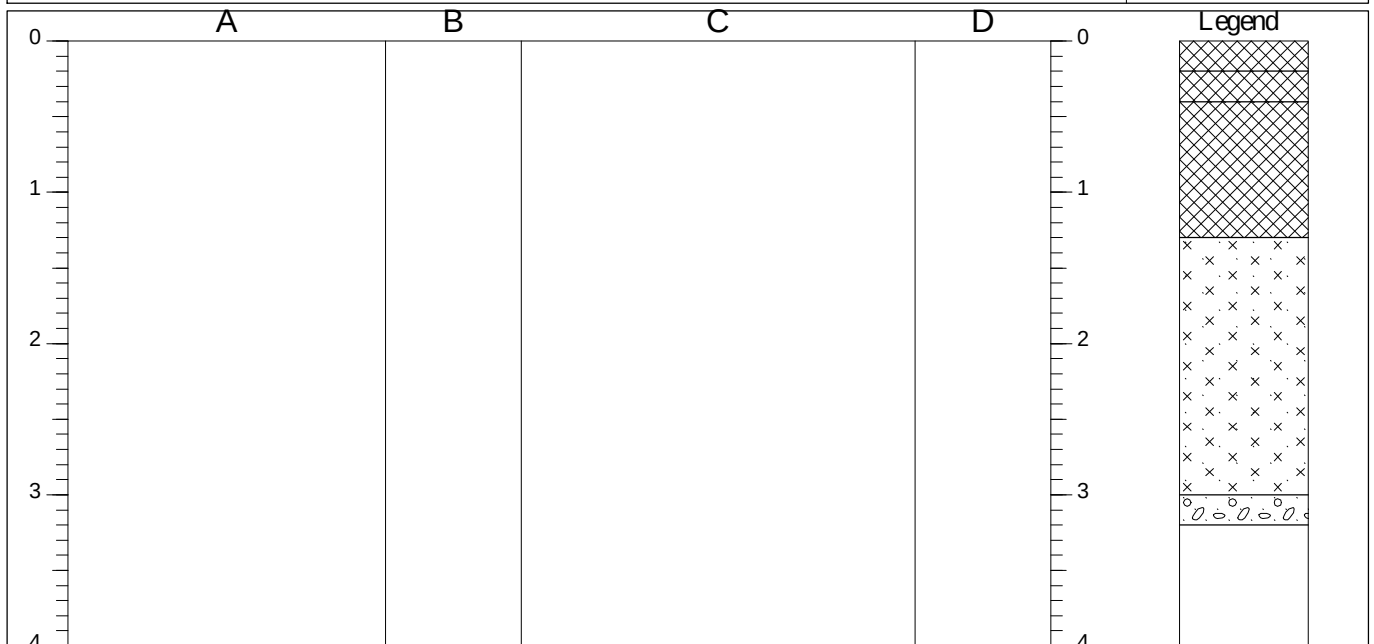
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TRIAL PIT LOG

Project Mondi Site, Ramsbottom				TRIAL PIT No TP18
Job No 18ECH016	Date 02-07-19 02-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.20		MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.				
0.20-0.40		MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.				
0.40-1.30		MADE GROUND: Loose brown fine to coarse SAND, GRAVEL & COBBLES of of concrete, metal, brick, sandstone and other demolition materials.	0.50	ES		
1.30-3.00		Stiff grey very sandy SILT. Slightly damp.	1.30	D		
3.00-3.20		Medium dense very silty fine to coarse SAND & GRAVEL. Gravel is fine to coarse subangular to subrounded of mixed lithology.				

Shoring/Support: Stability: Stable		GENERAL REMARKS
		Water strike at 3.20mbgl.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 13t tracked excavator	Logged By KR
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Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS1	
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.55	ES					0.20	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.	
						0.55	MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.	
1.20		N8				(2.00)	MADE GROUND: Loose black fine to coarse very gravelly occasionally cobbly SAND. Gravel is fine to coarse angular to subrounded of ash, clinker, brick and occasional clinker.	
2.00		N0						
2.75	ES					2.55	MADE GROUND: Very soft to soft brownish grey clayey sandy SILT.	
3.00		N0				2.75	MADE GROUND: MADE GROUND: Very soft greyish black clayey sandy SILT. Slight hydrocarbon odour. Occasional narrow sand bands with leaves noted. Possible pocket of paper waste 4.00-4.20mbgl.	
4.00		N0				(1.45)		
4.20	D					4.20	Possible MADE GROUND: Soft grey sandy SILT with occasional fine to medium angular to subangular gravel of sandstone.	
						4.50	Medium dense grey fine to coarse SAND & GRAVEL angular to subrounded of mixed lithology.	
5.00		N34				(0.50)		
						5.00		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Wet from 2.75mbgl
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By KR		

AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3.1.GDT 8/7/19



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS2	
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()	Sheet 1 of 1	
Contractor BETTS GEO Ltd					

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.60	ES					0.20	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.		
1.20		N50/ 85 mm				(1.20)	MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.		
						1.40			
						1.45	MADE GROUND: Concrete slab		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Concrete slab at 1.45mbgl.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By KR		

AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3.1.GDT 8/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS6
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	Geology	Instrument/Backfill
0.55	ES					0.20	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.		
						0.50	MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.		
						0.55	MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.		
						0.60	MADE GROUND: Concrete slab		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used Competitor Rig					Logged By KR

AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS3 1.GDT 8/7/19



Betts Geo
Old Marsh Farm, Welsh Road, Sealand, Flintshire
CH5 2LY
Telephone: 01244 288179

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS7	
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

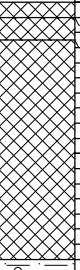
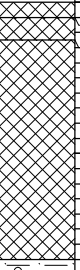
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.95	ES	N2	1			0.20	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.		
						(0.45) 0.65	MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone.		
						0.95	MADE GROUND: Loose to medium dense brown and black very sandy GRAVEL. Gravel is fine to medium angular to subrounded of sandstone and ash.		
1.20	ES	N4				(0.55) 1.50	MADE GROUND: Loose to medium dense brown, black and white very sandy GRAVEL. Gravel is fine to medium angular to subrounded of sandstone and ash. Unkown white material.		
					1.80	MADE GROUND: Loose orange, black and brown silty clayey fine to medium SAND. Reworked.			
1.80				ES	N0			(2.05) 3.85	
2.00	N0						(0.45) 4.30	Medium dense grey silty fine to medium SAND.	
						(0.70) 5.00	Soft grey very sandy SILT. Saturated.		
3.00		N13							
4.00									
5.00									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Water strike 3.70-3.85mbgl
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By KR		

AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3.1.GDT 8/7/19

BOREHOLE LOG

Project Holcombe Mill, Bridge Street, Ramsbottom				BOREHOLE No WS8	
Job No 19ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()		
Contractor				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.50-0.60	ES					0.10	Tarmac (cored).		
						0.25	[MADE GROUND]		
1.20	N7					(1.45)	Loose light grey brown very sandy GRAVEL of medium angular limestone (sub-base). [MADE GROUND]		
						1.70	Loose to medium dark brown black gravelly medium to coarse SAND. Gravel of fine to medium angular to subrounded mixed lithologies including sandstone and brick. [MADE GROUND]		
1.80-1.90	ES					2.00	Soft orange brown sandy CLAY with rare gravel of fine subrounded mixed lithologies. [ALLUVIUM]		
						(0.70)	No recovery.		
3.00	N17					(0.50)	Soft light yellow brown mottled blue grey, yellow and pink slightly sandy CLAY with rare gravel of medium angular sandstone. [ALLUVIUM]		
						3.20	[ALLUVIUM]		
3.70-3.80	D					(0.50)	Medium light brown fine silty SAND. [ALLUVIUM]		
						3.70	[ALLUVIUM]		
4.00	N11					4.00	Firm to stiff brown slightly sandy slightly gravelly CLAY. Gravel of fine subrounded to subangular mixed lithologies. [ALLUVIUM]		
						(0.80)	Very loose/sloppy brown fine to medium SAND. [ALLUVIUM]		
5.00	N10					4.80			
						5.00	Firm to stiff brown slightly sandy slightly gravelly CLAY. Gravel of fine subrounded to subangular mixed lithologies. [ALLUVIUM]		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No olfactory evidence of contamination. Ground water at 4.0mbgl. Stable.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By RD		

AGS3 UK BH 19ECH016 - HOLCOMBE MILL, BRIDGE STREET, RAMSBOTTOM.GPJ GINT STD AGS.3.1.GDT 9/7/19

BOREHOLE LOG

Project Holcombe Mill, Bridge Street, Ramsbottom				BOREHOLE No WS9	
Job No 19ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()		
Contractor				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
0.60-0.70	ES					0.06	Tarmac (cored). [MADE GROUND]		
						0.40	Loose light grey brown very sandy GRAVEL of medium angular limestone (sub-base). [MADE GROUND]		
1.00-1.10	ES	N15				0.60	Loose to medium orange brown slightly cobbly gravelly fine to medium SAND.		
						0.90	Gravel of fine to coarse subrounded to rounded mixed lithologies including white sandstone. Cobble of fine to medium subrounded mixed lithologies. [RE-WORKED ALLUVIUM]		
2.00		N14				1.20	Loose black slightly gravelly ashy fine to medium SAND with rare cobble.		
						1.40	Gravel of fine to medium angular to subrounded mixed lithologies including white sandstone. Cobble of fine to medium subrounded mixed lithologies. [RE-WORKED ALLUVIUM]		
3.00		N21				2.80	Soft orange brown slightly gravelly sandy CLAY. Gravel of fine to medium subrounded to subangular mixed lithologies. [ALLUVIUM]		
							No recovery.		
3.50-3.60	D						Loose light orange brown clayey very sandy GRAVEL of fine to coarse angular to rounded white sandstone. [ALLUVIUM]		
							Firm to stiff brown slightly sandy slightly gravelly CLAY. Gravel of fine subrounded to subangular mixed lithologies. [ALLUVIUM]		
4.00		N30				(2.20)			
5.00		N23				5.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No olfactory evidence of contamination. Ground water at 2.6mbgl. Casing required 0 - 3mbgl.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By RD		

AGS3 UK BH 19ECH016 - HOLCOMBE MILL, BRIDGE STREET, RAMSBOTTOM.GPJ GINT STD AGS.3.1.GDT 9/7/19

BOREHOLE LOG

Project Holcombe Mill, Bridge Street, Ramsbottom				BOREHOLE No WS10	
Job No 19ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()		
Contractor				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION		
1.00-1.10	ES					(0.60) 0.60	Tarmac (cored). [MADE GROUND]		
						0.95	Loose light grey brown very sandy GRAVEL of medium angular limestone (sub-base). [MADE GROUND]		
						1.10	Loose to medium dark grey brown slightly clayey gravelly medium to coarse SAND. Gravel of fine to coarse subrounded to subangular mixed lithologies including white sandstone. [ALLUVIUM]		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No olfactory evidence of contamination. Dry and stable. Terminated at 1.10mbgl due to large cobble.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By RD		

AGS3 UK BH 19ECH016 - HOLCOMBE MILL, BRIDGE STREET, RAMSBOTTOM.GPJ GINT STD AGS.3.1.GDT 9/7/19

BOREHOLE LOG

Project Holcombe Mill, Bridge Street, Ramsbottom				BOREHOLE No WS11	
Job No 19ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()		
Contractor				Sheet 1 of 1	

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)		
0.50-0.60	ES					0.06	Tarmac (cored).	
						0.40	[MADE GROUND]	
					0.60	Loose light grey brown very sandy GRAVEL of medium angular limestone (sub-base).		
					0.80	[MADE GROUND]		
							Loose black slightly gravelly ashy fine to medium SAND with rare cobble.	
							Gravel of fine to medium angular to subrounded mixed lithologies including white sandstone.	
							Cobble of fine to medium subrounded mixed lithologies.	
							[RE-WORKED ALLUVIUM]	
							Loose to medium light grey brown slightly clayey gravelly SAND.	
							Gravel of fine to medium subrounded to subangular mixed lithologies including white sandstone.	
							[ALLUVIUM]	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS No olfactory evidence of contamination. Dry and Stable. Terminated at 0.80mbgl due to concrete.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used Competitor Rig	Logged By RD
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AGS3 UK BH 19ECH016 - HOLCOMBE MILL, BRIDGE STREET, RAMSBOTTOM.GPJ GINT STD AGS.3.1.GDT 9/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS12
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS			STRATA						
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	Geology	Instrument/ Backfill
0.35	ES					0.20	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.		
						0.35	MADE GROUND: Loose to medium dense grey sandy GRAVEL. Gravel is fine to coarse angular to subangular of limestone.		
						0.55			
						0.60			
							MADE GROUND: Concrete slab		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used		Competitor Rig		Logged By KR	

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS3 1.GDT 8/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS13
Job No 18ECH016	Date 26-06-19 26-06-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By KR		

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 8/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS14
Job No 18ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used		Competitor Rig		Logged By KR	

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 8/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS15
Job No 18ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

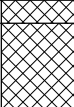
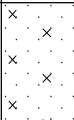
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Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used		Competitor Rig		Logged By KR	

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 8/7/19

BOREHOLE LOG

Project				BOREHOLE No WS16
Mondi Site, Ramsbottom				
Job No 18ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.75	ES	N6	Water ↓			0.15	MADE GROUND: Concrete slab with reinforcement and Damp Proof Course.		
						(0.60)	MADE GROUND: Loose to medium dense yellowish brown fine to medium SAND & GRAVEL. Gravel is fine to medium angular to subangular of sandstone and occasional brick.		
						0.75	MADE GROUND: Loose to medium dense black fine to coarse very gravelly occasionally cobbly SAND. Gravel is fine to coarse angular to subrounded of ash, brick and occasional clinker. Water strike at base.		
1.20						(0.95)	MADE GROUND: Loose to medium dense black fine to coarse very gravelly occasionally cobbly SAND. Gravel is fine to coarse angular to subrounded of ash, brick and occasional clinker. Water strike at base.		
						1.70	MADE GROUND: Soft grey sandy SILT.		
2.00	ES	N0				1.90	MADE GROUND: Soft grey sandy SILT.		
						2.20	MADE GROUND: Loose to medium dense black silty fine to medium SAND & GRAVEL. Gravel is fine to medium of ash. Clay band at 1.95-2.00mbgl. Hydrocarbon odour.		
2.00	D					(0.60)	MADE GROUND: Soft to firm dark grey and black sandy SILT. Slight organic odour.		
2.20						2.80	MADE GROUND: Soft to firm dark grey and black sandy SILT. Slight organic odour.		
3.00		N1				(0.90)	Soft grey sandy SILT. Wet from 3.00mbgl.		
4.00		N22			3.70	Medium dense grey slightly silty fine to coarse SAND. Barrel refusal at 4.50mbgl.			
					(0.80)				
4.50						4.50			
5.00		N4							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Water Strike at 3.00mbgl. Barrel refusal at 4.50mbgl.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used Competitor Rig			Logged By KR		

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS17
Job No 18ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used		Competitor Rig		Logged By KR	

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 8/7/19

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No WS18
Job No 18ECH016	Date 01-07-19 01-07-19	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used		Competitor Rig		Logged By KR	

AGS3 UK BH 19ECH016 - MONDI SITE. RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 8/7/19



NKC Geotech Ltd

RO1

REF 1925
Bh 1

SITE
CLIENT

Holcombe Mill, Ramsbottom
Betts Geo-Environmental

PRINTOUT
SCALE
GL AOD

25 June 2019
1:200

TITLE

Proving rockhead

ORIGIN

printout direct from rig on site
drilled & logged by Neil Catlow

RIG
ORIENTATION
FLUSH
BIT

Montabert Hydrofore
vertical
river water bowser supply
75mm T/C

	DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	INTERPRETATION
0.0	0.0	fill		masonry and concrete	not taken	ground level
0.5						concrete base
1.0						
1.5						
2.0	2.0	sand		grey, loose drilling		
2.5						
3.0						
3.5	3.5	clay		brown, sandy, soft		
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0	9.2	clay		brown, silty, with boulders, firm		
9.5						
10.0						
10.5						
11.0						
11.5						
12.0						
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						
19.5						
20.0						
20.5						
21.0						
21.5						
22.0						
22.5						
23.0	23.0	shale		dark grey, sandy, firm drilling occasional thin sandstone layers		rockhead
23.5						
24.0						
24.5						
25.0						
25.5						
26.0						
26.5						
27.0						
27.5						
28.0						
28.5						
29.0						
29.5						
30.0	30.0			bottom of hole		

IN HOLE GAS TESTING

%	O2	20.6
%	CH4	0.0
%	CO2	0.0
%	LEL	0.0
ppm	H2S	0.0
ppm	CO	0.0

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT
www.nkc.co.uk

drilled and logged by
Neil Catlow B.Sc FGS



NKC Geotech Ltd

RO2

REF	1925	SITE	Holcombe Mill, Ramsbottom		PRINTOUT	26 June 2019
Bh	2	CLIENT	Betts Geo-Environmental		SCALE	1:200
		TITLE			GL AOD	
		ORIGIN	printout direct from rig on site drilled & logged by Neil Catlow		RIG ORIENTATION	Montabert Hydrofore vertical
					FLUSH	river water bowser supply
					BIT	75mm T/C
	DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	INTERPRETATION
0.0	0.0	fill		masonry and concrete	not taken	ground level
0.5						concrete base
1.0				dark brown, loose drilling		
1.5	1.2	sand				
2.0						
2.5						
3.0						
3.5	3.5	clay		brown, sandy, soft with gravel		
4.0						
4.5	5.2	clay		brown, silty, with boulders, firm		
5.0						
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						
10.5						
11.0						
11.5						
12.0	12.0	clay		grey, silty, with boulders, firm		
12.5						
13.0						
13.5						
14.0						
14.5						
15.0						
15.5						
16.0						
16.5						
17.0						
17.5						
18.0						
18.5						
19.0						
19.5						
20.0						
20.5						
21.0	21.0	shale		dark grey, sandy, firm drilling occasional thin sandstone layers		rockhead
21.5						
22.0						
22.5						
23.0						
23.5						
24.0						
24.5						
25.0						
25.5						
26.0						
26.5						
27.0						
27.5						
28.0						
28.5						
29.0						
29.5						
30.0						
30.5						
31.0						
31.5						
32.0						
32.5						
33.0						
33.5						
34.0						
34.5						
35.0						
35.5						
36.0	36.0			bottom of hole		

IN HOLE GAS TESTING

%	O2	20.6
%	CH4	0.0
%	CO2	0.0
%	LEL	0.0
ppm	H2S	0.0
ppm	CO	0.0

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT
www.nkc.co.uk

drilled and logged by
Neil Catlow B.Sc FGS



NKC Geotech Ltd

RO3

REF 1925
Bh 3

SITE
CLIENT

Holcombe Mill, Ramsbottom
Betts Geo-Environmental

PRINTOUT
SCALE
GL AOD

26 June 2019
1:200

TITLE

RIG
ORIENTATION
FLUSH
BIT

Montabert Hydrofore
vertical
river water piped supply
75mm T/C

ORIGIN

printout direct from rig on site
drilled & logged by Neil Catlow

DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	INTERPRETATION
0.0	0.0	fill	black sale, coal, ash, loose	not taken	ground level mound
0.5					
1.0					
1.5					
2.0					
2.5					
3.0					
3.5					
4.0					
4.5					
5.0	5.0	masonry			reservoir floor ?
5.5	5.5	gravel	brown, with sand		
6.0					
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5	9.5	clay	brown, silty, with boulders, firm		
10.0					
10.5					
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					
15.5					
16.0					
16.5					
17.0					
17.5					
18.0					
18.5					
19.0					
19.5					
20.0					
20.5					
21.0	21.0	shale	dark grey, sandy, firm drilling occasional thin sandstone layers		rockhead
21.5					
22.0					
22.5					
23.0					
23.5					
24.0					
24.5					
25.0					
25.5					
26.0					
26.5					
27.0					
27.5					
28.0					
28.5					
29.0					
29.5					
30.0					
30.5					
31.0					
31.5					
32.0					
32.5					
33.0					
33.5					
34.0					
34.5					
35.0					
35.5					
36.0	36.0		bottom of hole		

IN HOLE GAS TESTING

% O2	20.6
% CH4	0.0
% CO2	0.0
% LEL	0.0
ppm H2S	0.0
ppm CO	0.0

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT
www.nkc.co.uk

drilled and logged by
Neil Catlow B.Sc FGS



NKC Geotech Ltd

RO4

REF 1925
Bh 4

SITE
CLIENT

Holcombe Mill, Ramsbottom
Betts Geo-Environmental

PRINTOUT
SCALE
GL AOD

27 June 2019
1:200

TITLE

RIG
ORIENTATION
FLUSH
BIT

Montabert Hydrofore
vertical
river water piped supply
75mm T/C

ORIGIN

printout direct from rig on site
drilled & logged by Neil Catlow

DEPTH	STRATA	GRAPHIC	DESCRIPTION	SPT N value	INTERPRETATION
0.0	0.0	fill	black, oily, plastic, loose extremely loose, small voids	not taken	ground level mound
0.5					
1.0					
1.5					
2.0					
2.5					
3.0					
3.5					
4.0					
4.5	4.5	masonry			reservoir floor ?
5.0	5.0	gravel	brown, with sand and clay layers		
5.5					
6.0					
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					
10.5	10.4	clay	brown, silty, with boulders, firm		
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					
15.5					
16.0					
16.5					
17.0					
17.5					
18.0					
18.5					
19.0					
19.5					
20.0					
20.5					
21.0					
21.5					
22.0					
22.5	23.0	shale	dark grey, sandy, firm drilling occasional thin sandstone layers		rockhead
23.0					
23.5					
24.0					
24.5					
25.0					
25.5					
26.0					
26.5					
27.0					
27.5					
28.0					
28.5					
29.0					
29.5					
30.0					
30.5					
31.0					
31.5					
32.0					
32.5					
33.0					
33.5					
34.0					
34.5					
35.0					
35.5					
36.0					
36.5					
37.0					
37.5					
38.0	38.0		bottom of hole		

IN HOLE GAS TESTING

% O2 20.6
% CH4 0.0
% CO2 0.0
% LEL 0.0
ppm H2S 0.0
ppm CO 0.0

Nkc Geotech Ltd
25 Grosvenor Road
Wrexham
LL11 1BT
www.nkc.co.uk

drilled and logged by
Neil Catlow B.Sc FGS

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP101
Job No 18ECH016	Date 12-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible][illegible]

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP102	
Job No 18ECH016	Date 12-05-22	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION		
2.00	B					0.25	MADE GROUND: Concrete with reinforcement.		
						(1.35) 1.60	MADE GROUND: Medium dense grey, black and brown clayey silty fine to coarse SAND & GRAVEL with occasional cobbles. Gravel and cobbles are of mixed demolition waste including concrete, brick, sandstone and metals. Hydrocarbon odour noted. Wall and concrete pad noted down to 2.00mbgl on the northern edge of the pit. Southern edge of pit shows firm blueish grey sandy silty CLAY from 2.50mbgl.		
						(0.40) 2.00	MADE GROUND: Medium dense yellow very clayey very sandy GRAVEL & COBBLES. Gravel and cobbles are fine to coarse angular to subrounded of sandstone with occasional clinker and slag.		
						(0.40) 2.40	Loose to medium dense brown and grey very silty clayey fine to coarse SAND.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Dry Wall and pad noted from 0.60mbgl down to 2.00mbgl.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used 20T Tracked Excavator			Logged By KR		

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP103
Job No 18ECH016	Date 12-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

[illegible]

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Footing noted to 0.95mbgl. Water entering pit from broken pipe, movement across top of silt.

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP104
Job No 18ECH016	Date 12-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
						(0.60) 0.60	MADE GROUND: Concrete with high level of reinforcement. Black duct noted within concrete.	
						(0.40) 1.00	Loose to medium dense fine to coarse SAND, GRAVEL & COBBLES. Gravel and cobbles are fine to coarse angular to subrounded of brick, concrete and sandstone. Standing water within culvert noted at 0.90mbgl - circa 700mm width. Sandstone set surround. Culvert covered and hole aborted.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Black duct pipe noted within concrete. 700mm culvert noted, standing water, no flow noted - hole aborted.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 20T Tracked Excavator	Logged By KR
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AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 18/5/22

BOREHOLE LOG

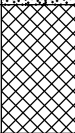
Project Mondi Site, Ramsbottom				BOREHOLE No TP105	
Job No 18ECH016	Date 13-05-22	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

SAMPLES & TESTS			STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)		
						(0.80)		
						0.80		
						0.90		
						1.20		
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Redundant 300mm pipe at 1.60mbgl.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used 20T Tracked Excavator			Logged By KR		

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP106
Job No 18ECH016	Date 13-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

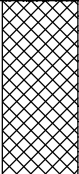
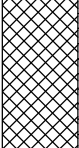
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.30	MADE GROUND: Concrete with reinforcement.		
						(0.85) 1.15	Loose to medium dense fine to coarse SAND, GRAVEL & COBBLES. Gravel and cobbles are fine to coarse angular to subrounded of brick, concrete and sandstone.		
						1.30	MADE GROUND: Concrete with reinforcement.		
						(0.50) 1.80	MADE GROUND: Concrete as COBBLES.		
						(1.50) 3.30	Soft to firm grey sandy SILT. Ceramic pipe noted at 2.20mbgl - medium inflow, reducing.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
All dimensions in metres Scale 1:50		Client Eccleston Homes				Method/ Plant Used 20T Tracked Excavator					Logged By KR

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BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP107	
Job No 18ECH016	Date 13-05-22	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
						0.30	MADE GROUND: Concrete with reinforcement.	
						(1.15)	MADE GROUND: Medium dense brown and grey fine to coarse SAND & GRAVEL. Gravel is fine to coarse angular to subangular of mixed demo. waste including sandstone, nrick and concrete.	
						1.45		
						1.55	MADE GROUND: Concrete with reinforcement.	
						(1.05)	MADE GROUND: Medium dense brown and grey fine to coarse SAND & GRAVEL. Gravel is fine to coarse angular to subangular of mixed demo. waste including sandstone, nrick and concrete.	
						(0.40)	Soft to firm grey sandy SILT. Clay pipe noted at 2.05mbgl, medium inflow reducing.	
						3.00		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Clay pipe noted at 2.05mbgl with medium inflow, reducing. Slight sheen on water.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used 20T Tracked Excavator			Logged By KR		

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP108
Job No 18ECH016	Date 13-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS				STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						0.30	MADE GROUND: Concrete with reinforcement.			
						(1.70) 2.00	MADE GROUND: Medium dense brown and grey fine to coarse SAND & GRAVEL. Gravel is fine to coarse angular to subangular of mixed demo. waste including sandstone, brick and concrete.			
						(0.50) 2.50	Soft to firm grey sandy SILT. Clay pipe noted at 2.05mbgl, medium inflow reducing.			

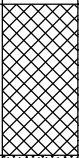
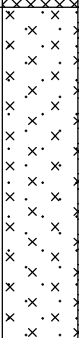
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Water seepage at 1.85mbgl, likly linked to broken pipe.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 20T Tracked Excavator	Logged By KR
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AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 18/5/22

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TP109	
Job No 18ECH016	Date 13-05-22	Ground Level (m)	Co-Ordinates ()		
Contractor BETTS GEO Ltd				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thick- ness)	DESCRIPTION		
						(1.00) 1.00	Medium dense fine to coarse SAND, GRAVEL & COBBLES. Gravel and cobbles are fine to coarse angular to subrounded of brick, concrete and sandstone.		
						(0.40) 1.40	MADE GROUND: Concrete with reinforcement.		
						(0.40) 1.80	MADE GROUND: Sandstone sets/slabs		
						(2.20) 4.00	Soft to firm greyish sandy SILT. Clay pipe noted at 2.30mbgl with low-medium inflow, reducing.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Clay pipe 2.30mbgl - medium inflow, reducing.
All dimensions in metres Scale 1:50			Client Eccleston Homes			Method/ Plant Used 20T Tracked Excavator			Logged By KR		

BOREHOLE LOG

Project Mondi Site, Ramsbottom				BOREHOLE No TT101
Job No 18ECH016	Date 12-05-22 12-05-22	Ground Level (m)	Co-Ordinates ()	
Contractor BETTS GEO Ltd				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.80	B				(0.40) 0.40	MADE GROUND: Concrete with reinforcement.			
					(1.00) 1.40	MADE GROUND: Medium dense grey, black and brown clayey silty fine to coarse SAND & GRAVEL with occasional cobbles. Gravel and cobbles are of mixed demolition waste including concrete, brick, sandstone and metals. Unrecorded water supply pipe struck at 1.20mbgl 15-200mm diameter.			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Unrecorded water supply pipe struck at around 1.20mbgl. Fast inflow, not slowing. Dark brown to light brown to clear flow.

All dimensions in metres Scale 1:50	Client Eccleston Homes	Method/ Plant Used 20T Tracked Excavator	Logged By KR
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AGS3 UK BH 19ECH016 - MONDI SITE, RAMSBOTTOM.GPJ GINT STD AGS 3 1.GDT 18/5/22

APPENDIX F

(i) Contamination Testing Results

SUMMARY OF CONTAMINATION ANALYSIS: SOIL

SUMMARY OF CONTAMINATION ANALYSIS: METALS

Project Name	Mondi Site, Razmbottom
Project No	19ECH016
Date	25/06/2019

[illegible]

Metals	Mean Value Test	Range	Afrilat 2017 (µg/kg)	Afrilat 2017 (µg/kg)	DEFRA C45L
	UG ₁	Largest Value (µg/kg)	Smallest Value (µg/kg)	With Homogenous Product (1% SOW)	With Homogenous Product (1% SOW)
pH	8.80	11.00	7.10	-	-
Orthophosphate and 2-1	0.21	0.77	0.02	-	-
Chloride	3.36	8.20	0.30	-	-
Arsenic	31.08	160.00	1.80	32	32
Cadmium	447	1.20	0.35	15	16
Copper	740.0	160.00	17.00	4739	4739
Chromium (hexavalent)	1.22	1.60	0.60	3.63	26.3
Lead	253.21	160.00	12.00	8.81	26.3
Mercury	4.44	0.50	0.45	15.8	20.0
Nickel	32.40	7.90	1.80	EA/RTS after Aug 2015	-
Selenium	11.1	27.0	9.80	275	-
Zinc	22.72	160.00	35.00	2000	-

NOTE:
Any individual results and mean value tests above SOV's are shown RED highlighted
Any outlier values which exceed relevant SOV's are shown in red

* - The calculations for the mean value test include outliers

Results are presented as mg/kg or otherwise stated

ALL RESULTS PRESENTED ARE ASSIGNED UNDER THE COMBINED CLASS ASSIGNMENT CRITERION AS OUTLINED WITHIN EPA **ASSUMING NO FREE PRODUCT** (see observed duration below); see "GUIDANCE NOTES ON CONTAMINATION"

SOVs are derived from the EA-2019 SOV's which are taken from AffixB 2016. Category 4 screening levels have been adopted by the EA and have been included as an addendum.

Note: The SOV's elemental mercury has been used to assess total mercury concentrations at the site. The Environment Agency's Science Report SC5002011 Mercury SOV states that for general surface contamination and to simplify the assessment the SOV's for inorganic mercury can normally be compared with chemical analysis for total mercury content. Based on the data for elemental mercury (170mg/kg) in the final assessment is used.

NO ADDITIONAL COMMENTS

TS - Topsoil, MG - Made Ground and N - Natural Ground

SUMMARY OF CONTAMINATION ANALYSIS: TPH

Project Name	Mondl Site, Razmbottom
Project No	19ECH016
Date	25/06/2019

[illegible]

TPH	Mass Value Tons ^a	Range		Africa 2017 (mg/kg) Residential with Flame Green Products	Africa 2017 (mg/kg) Residential with Flame Green Products	DEFRA C&E1 2017
		US ₉₅	Largest Value Imperial	Smallest Value Imperial	US 50th PERCENTILE ^b from Product ^c	US 95th PERCENTILE ^b from Product ^c
All C+CS-C6	0.00	-0.05	<0.00	42.7	240	-
All C+CS-C7	0.00	-0.05	<0.00	68.3	180	-
All C+CS-C10	0.00	-0.06	<0.00	13.9	204	-
All C+CS-C12	2.24	-0.07	<0.00	81.7	1180	-
All C+CS-C16	7.77	-0.08	<0.00	365	4130	-
All C+CS-C18	30.23	-0.09	<0.00	-	-	-
All C+CS-C23	148.00	-0.10	<0.00	21300	20100	-
Total Aliphatics	174.56	-0.11	<0.00	0	-	-
All C+CS-C7	0.00	-0.12	<0.00	0.007	0.671	-
All C+CS-C9	0.00	-0.13	<0.00	0.15	7.80	-
All C+CS-C10	0.01	-0.14	<0.00	20.3	232	-
All C+CS-C12	5.30	-0.19	<0.00	70	466	-
All C+CS-C16	17.01	-0.30	<0.00	865	830	-
All C+CS-C21	84.72	-0.37	<0.00	319	1640	-
All C+CS-C23	177.80	-0.38	<0.00	1120	1710	-
Total Aromatics	233.67	-0.39	<0.00	-	-	-
TPH (All A & B)	-	-	-	-	-	-
BTX-E-Benzene	1.00	-0.21	<0.00	0.640	0.33	0.071
BTX-E-Xylenes	1.83	-0.22	<0.00	1.13	7.63	-
BTX-E-Ethyl Benzene	1.54	-0.23	<0.00	0.907	403	-
BTX-E-m & p-Xylenes	1.83	-0.24	<0.00	24	312	-
BTX-E-o-Xylenes	1.83	-0.25	<0.00	20.4	230	-
MTBE	1.00	-0.26	<0.00	27.6	220	-

	UU Drinking Water Guidelines
	PE Threshold
Total BTX & MTBE	0.1
EC5-EC10 Ali-Aro	2
EC10-EC16 Ali-Aro	10
EC16-EC40 Ali-Aro	500

^{***} THESE RESULTS PRESENTED ARE ASSESSED UNDER THE COMBINED-CLEA ASSESSMENT CRITERION AS OUTLINED WITHIN SR4 ASSUMING NO FREE

PRODUCT WAS OBSERVED DURING FIELDWORK- SEE 'GUIDANCE NOTES ON CONTAMINATION'.

Project Name	Mondi Site, Razmibottom
Project No	19ECH016
Date	25/06/19

[illegible]

PAH	Mean Value Test	Range	Riskfall 2017 (mg/kg)			
			Residential with Home Green Produce		Residential with Home Green Produce	
			US ₁₀	US ₁₀₀	US ₁₀ without Fire Product	US ₁₀₀ without Fire Product
Acenaphthene	1.70	1.50 - 1.90	-	608	2768	-
Acenaphthylene	0.10	0.06 - 0.01	-	-	-	-
Anthracene	2.33	1.50 - 0.02	10200	26300	-	-
Benzo[a]anthracene	0.55	0.05 - 0.01	4.52	1.54	-	-
Benzo[a]fluoranthene	4.78	0.40 - 0.04	1.51	2.95	4.95	-
Benzo[b]fluoranthene	2.42	38.00 - 0.05	7.2	9.8	-	-
Benzo[k]fluoranthene	5.44	1.70 - 0.05	162	186	-	-
Benzo[a]pyrene	2.35	1.50 - 0.07	84	186	-	-
Chrysene	4.58	30.00 - 0.06	95	927	-	-
Dibenz[a,h]anthracene	0.59	6.10 - 0.04	0.838	1	-	-
Fluoranthene	10.47	7.40 - 0.08	93	2610	-	-
Indeno[1,2,3-cd]pyrene	1.56	10.00 - 0.01	785	2610	-	-
Indene[1,2,3-cd]pyrene	2.11	15.00 - 0.03	731	9.75	-	-
Naphthalene	1.65	13.00 - 0.03	0.829	12.2	-	-
Phenanthrene	6.69	0.10 - 0.01	-	-	-	-
Pyrene	8.95	69.00 - 0.07	668	2180	-	-

Results expressed as mg/kg air dried unless otherwise stated

* - The calculations for the mean value test include outliers

*** THESE RESULTS PRESENTED ARE ASSESSED UNDER THE COMBINED CLEA ASSESSMENT CRITERION AS OUTLINED WITHIN SR4 ASSUMING NO FREE PRODUCT WAS OBSERVED DURING FIELDWORK. SEE 'GUIDANCE NOTES ON CONTAMINATION'.

NOTES:

For the Purpose of this investigation- results will be assessed against **RESIDENTIAL GUIDELINES WITH HOMEGROWN PRODUCE WITH NO FREE PRODUCT.**



Betts Geo
Old Marsh Farm
Welsh Road
Sealand
Flintshire
CH5 2LY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: Geolab@betts-associates.co.uk

Analytical Report Number : 19-48009

Project / Site name:	Mondi Site, Ramsbottom	Samples received on:	02/07/2019
Your job number:	19ECH016	Samples instructed on:	02/07/2019
Your order number:	BG3367	Analysis completed by:	08/07/2019
Report Issue Number:	1	Report issued on:	08/07/2019
Samples Analysed:	14 soil samples		

Signed:

Zina Abdul Razzak
Senior Quality Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 19-48009

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3367

Lab Sample Number				1257402	1257403	1257404	1257405	1257406
Sample Reference				WS8	WS8	WS9	WS9	WS10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.80	0.60	1.00	1.00
Date Sampled				01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	25	15	16	15
Total mass of sample received	kg	0.001	NONE	1.4	1.6	1.4	1.5	1.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.2	7.1	7.4	7.6	7.6
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	75	40	53	44	73
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.037	0.020	0.026	0.022	0.037
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	37.3	20.0	26.4	22.2	36.6
Organic Matter	%	0.1	MCERTS	4.6	1.3	5.4	1.9	4.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.89	< 0.05	0.22	< 0.05	0.46
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.8	< 0.05	< 0.05	< 0.05	4.4
Fluorene	mg/kg	0.05	MCERTS	1.5	< 0.05	< 0.05	< 0.05	6.3
Phenanthrene	mg/kg	0.05	MCERTS	11	< 0.05	1.6	1.0	41
Anthracene	mg/kg	0.05	MCERTS	2.1	< 0.05	0.23	0.19	11
Fluoranthene	mg/kg	0.05	MCERTS	14	< 0.05	0.74	0.69	34
Pyrene	mg/kg	0.05	MCERTS	13	< 0.05	0.82	0.67	37
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.5	< 0.05	0.43	0.33	20
Chrysene	mg/kg	0.05	MCERTS	5.3	< 0.05	0.63	0.54	17
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	5.1	< 0.05	0.33	< 0.05	12
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.7	< 0.05	0.17	< 0.05	7.9
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.9	< 0.05	0.23	< 0.05	14
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.1	< 0.05	< 0.05	< 0.05	4.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.54	< 0.05	< 0.05	< 0.05	1.5
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.6	< 0.05	< 0.05	< 0.05	5.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	74.0	< 0.80	5.35	3.44	217
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	5.0	25	8.6	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.6	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	16	15	15	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	67	19	310	27	61
Lead (aqua regia extractable)	mg/kg	1	MCERTS	77	15	36	16	65
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	43	45	32	13	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	99	51	35	69

Analytical Report Number: 19-48009

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3367

Lab Sample Number	1257402	1257403	1257404	1257405	1257406
Sample Reference	WS8	WS8	WS9	WS9	WS10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	1.80	0.60	1.00	1.00
Date Sampled	01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	12
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	12

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	9.3	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	31	< 2.0	< 2.0	< 2.0	39
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	130	< 10	< 10	< 10	260
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	150	< 10	< 10	< 10	250
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	320	< 10	< 10	< 10	550

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 19-48009

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3367

Lab Sample Number				1257407	1257408	1257409	1257410	1257411
Sample Reference				WS11	WS12	WS13	WS14	WS15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.35	0.35	0.25	0.90
Date Sampled				01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	8.7	7.8	12	9.3
Total mass of sample received	kg	0.001	NONE	1.2	1.6	1.8	1.2	1.7

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	8.3	9.3	11.0	8.3
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	300	460	120	830	59
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.15	0.23	0.059	0.42	0.029
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	148	228	59.1	417	29.3
Organic Matter	%	0.1	MCERTS	8.2	2.9	0.8	2.5	0.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	7.7	13	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3.4	4.5	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	3.0	5.3	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	16	20	< 0.05	0.63	< 0.05
Anthracene	mg/kg	0.05	MCERTS	3.5	10	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	17	26	< 0.05	0.66	< 0.05
Pyrene	mg/kg	0.05	MCERTS	15	23	< 0.05	0.55	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	8.1	8.5	< 0.05	0.28	< 0.05
Chrysene	mg/kg	0.05	MCERTS	8.8	8.5	< 0.05	0.31	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	8.3	7.8	< 0.05	0.28	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.2	5.0	< 0.05	0.19	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	7.2	7.2	< 0.05	0.24	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.8	3.5	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.75	0.88	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.4	4.5	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	108	149	< 0.80	3.14	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	42	6.6	6.9	14	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	15	21	36	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	160	39	40	66	36
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	52	31	110	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	49	20	26	20	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	2.7	< 1.0	< 1.0	< 1.0	1.8
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	77	68	210	51

Analytical Report Number: 19-48009

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3367

Lab Sample Number				1257407	1257408	1257409	1257410	1257411
Sample Reference				WS11	WS12	WS13	WS14	WS15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.35	0.35	0.25	0.90
Date Sampled				01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	4.2	< 1.0	< 1.0	11	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	10	10	< 2.0	17	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	38	30	< 8.0	48	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	150	120	16	260	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	210	160	16	340	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	14	14	< 1.0	7.6	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	21	28	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	110	97	< 10	15	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	210	160	< 10	230	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	350	300	< 10	250	< 10

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 19-48009

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3367

Lab Sample Number				1257412	1257413	1257414	1257415	
Sample Reference				WS16	WS16	WS17	WS18	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.75	2.00	0.45	0.35	
Date Sampled				01/07/2019	01/07/2019	01/07/2019	01/07/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	14	34	7.1	8.7	
Total mass of sample received	kg	0.001	NONE	1.5	1.6	1.6	1.4	

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	7.6	8.9	10.9	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	150	460	69	900	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.073	0.23	0.035	0.45	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	72.5	232	34.5	448	
Organic Matter	%	0.1	MCERTS	2.2	5.0	1.0	3.6	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.43	0.17	< 0.05	
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.21	0.25	< 0.05	
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.21	0.26	< 0.05	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	0.85	< 0.80	< 0.80	
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	140	160	5.0	8.5	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	0.8	
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	19	10	25	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	140	320	38	120	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	470	1100	76	49	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.6	< 0.3	< 0.3	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	36	13	79	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	72	54	230	

Analytical Report Number: 19-48009

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG33367

Lab Sample Number				1257412	1257413	1257414	1257415	
Sample Reference				WS16	WS16	WS17	WS18	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.75	2.00	0.45	0.35	
Date Sampled				01/07/2019	01/07/2019	01/07/2019	01/07/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	18	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	18	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	58	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	97	

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	37	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	21	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	15	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	87	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	160	

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
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Analytical Report Number : 19-48009

Project / Site name: Mondri Site, Ramsbottom

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1257402	WS8	None Supplied	0.50	Brown clay and sand with gravel.
1257403	WS8	None Supplied	1.80	Brown clay.
1257404	WS9	None Supplied	0.60	Brown clay and sand with gravel.
1257405	WS9	None Supplied	1.00	Brown clay and sand with gravel.
1257406	WS10	None Supplied	1.00	Brown clay and sand.
1257407	WS11	None Supplied	0.50	Brown clay and sand with gravel.
1257408	WS12	None Supplied	0.35	Brown sand with gravel.
1257409	WS13	None Supplied	0.35	Grey clay and sand with gravel.
1257410	WS14	None Supplied	0.25	Brown sand with gravel and brick.
1257411	WS15	None Supplied	0.90	Brown clay and sand with gravel.
1257412	WS16	None Supplied	0.75	Brown sand with gravel.
1257413	WS16	None Supplied	2.00	Brown clay and sand with gravel.
1257414	WS17	None Supplied	0.45	Brown loam and sand with gravel.
1257415	WS18	None Supplied	0.35	Brown loam and sand with gravel.

Analytical Report Number : 19-48009

Project / Site name: Mondri Site, Ramsbottom

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.



Kris Rodway
Betts Geo
Old Marsh Farm
Welsh Road
Sealand
Flintshire
CH5 2LY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: Geolab@betts-associates.co.uk

Analytical Report Number : 19-47608

Project / Site name:	Mondi Site, Ramsbottom	Samples received on:	27/06/2019
Your job number:	19ECH016	Samples instructed on:	27/06/2019
Your order number:		Analysis completed by:	04/07/2019
Report Issue Number:	1	Report issued on:	04/07/2019
Samples Analysed:	24 soil samples		

Signed: 

Zina Abdul Razzak
Senior Quality Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255612	1255613	1255614	1255615	1255616
Sample Reference				TP1	TP1	TP2	TP3	TP3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.00	0.50	0.15	1.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	15	18	18	21	18
Total mass of sample received	kg	0.001	NONE	1.4	1.5	1.4	1.3	1.5

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile & Amosite	Chrysotile & Amosite	Chrysotile & Amosite	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected	Detected	Detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001	< 0.001	< 0.001	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001	< 0.001	< 0.001	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.6	8.1	7.6	7.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	76	1400	73	320	1500
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.038	0.68	0.037	0.16	0.77
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	38.0	679	36.5	161	768
Organic Matter	%	0.1	MCERTS	7.0	5.3	5.2	5.9	4.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.1	1.3	1.0	3.5	8.6
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.32	0.43
Acenaphthene	mg/kg	0.05	MCERTS	3.1	3.5	1.9	5.6	13
Fluorene	mg/kg	0.05	MCERTS	2.2	2.7	1.2	4.3	10
Phenanthrene	mg/kg	0.05	MCERTS	18	17	11	32	61
Anthracene	mg/kg	0.05	MCERTS	5.3	3.9	3.2	7.0	15
Fluoranthene	mg/kg	0.05	MCERTS	33	22	20	42	74
Pyrene	mg/kg	0.05	MCERTS	32	20	19	39	69
Benzo(a)anthracene	mg/kg	0.05	MCERTS	16	12	9.6	25	39
Chrysene	mg/kg	0.05	MCERTS	15	9.1	8.4	19	30
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	17	13	13	28	38
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	9.6	3.8	3.2	7.0	18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	15	10	9.3	23	34
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	8.2	4.7	4.7	9.7	15
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.4	1.4	1.5	3.0	4.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	9.1	5.5	5.4	11	17

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	186	130	112	260	446
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	30	27	25	21
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.9	0.7	0.6	0.8	0.7
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	36	50	33	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110	130	170	150	84
Lead (aqua regia extractable)	mg/kg	1	MCERTS	290	280	260	250	220
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	< 0.3	1.0	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	33	33	39	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	280	240	250	280	210

Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255612	1255613	1255614	1255615	1255616
Sample Reference				TP1	TP1	TP2	TP3	TP3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.00	0.50	0.15	1.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	2.8	< 1.0	1.6	2.3
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.4	29	4.6	12	15
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	12	170	55	100	54
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	44	490	210	310	300
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	61	690	270	430	370
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	3.8	8.5	5.7	7.8	15
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	31	40	25	43	62
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	210	280	170	270	400
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	490	580	550	620	650
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	730	900	750	940	1100
TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 19-47608
Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255612	1255613	1255614	1255615	1255616
Sample Reference				TP1	TP1	TP2	TP3	TP3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.00	0.50	0.15	1.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	< 1.0



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255612	1255613	1255614	1255615	1255616
Sample Reference				TP1	TP1	TP2	TP3	TP3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.00	0.50	0.15	1.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	1.3	-	-	8.6
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	1.2	-	-	6.3
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	0.43
Acenaphthene	mg/kg	0.05	MCERTS	-	3.5	-	-	13
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	1.6	-	-	6.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	2.7	-	-	10
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	17	-	-	61
Anthracene	mg/kg	0.05	MCERTS	-	3.9	-	-	15
Carbazole	mg/kg	0.3	MCERTS	-	1.5	-	-	6.0
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	0.8	-	-	1.5
Fluoranthene	mg/kg	0.05	MCERTS	-	22	-	-	74
Pyrene	mg/kg	0.05	MCERTS	-	20	-	-	69
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	12	-	-	39
Chrysene	mg/kg	0.05	MCERTS	-	9.1	-	-	30
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	13	-	-	38
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	3.8	-	-	18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	10	-	-	34
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	4.7	-	-	15
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	1.4	-	-	4.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	5.5	-	-	17

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Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255617	1255618	1255619	1255620	1255621
Sample Reference				TP4	TP5	TP5	TP5	TP5 D
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	1.70	2.25	2.25
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	13	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	7.6	5.6	18	28	34
Total mass of sample received	kg	0.001	NONE	1.6	1.5	1.3	1.8	1.2

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	Chrysotile	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	< 0.001	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	< 0.001	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.4	7.8	7.3	7.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	230	110	930	800	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.11	0.055	0.46	0.40	0.55
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	115	55.0	465	400	-
Organic Matter	%	0.1	MCERTS	0.8	0.3	6.2	5.1	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.84	0.58	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	0.45	< 0.05	2.5	0.63	-
Fluorene	mg/kg	0.05	MCERTS	0.31	< 0.05	1.6	0.91	-
Phenanthrene	mg/kg	0.05	MCERTS	1.7	< 0.05	13	1.1	-
Anthracene	mg/kg	0.05	MCERTS	0.39	< 0.05	3.0	0.57	-
Fluoranthene	mg/kg	0.05	MCERTS	2.4	< 0.05	15	1.8	-
Pyrene	mg/kg	0.05	MCERTS	2.2	< 0.05	14	2.4	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.3	< 0.05	8.2	2.1	-
Chrysene	mg/kg	0.05	MCERTS	1.2	< 0.05	5.9	1.3	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	< 0.05	6.9	1.5	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.49	< 0.05	3.7	0.74	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	< 0.05	6.8	1.8	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.54	< 0.05	3.0	0.55	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	< 0.05	3.5	0.65	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.2	< 0.80	87.6	16.4	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.3	6.5	46	53	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.5	< 0.2	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	17	28	38	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	28	240	130	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	34	120	170	170	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	20	57	28	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	94	47	250	76	-

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Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255617	1255618	1255619	1255620	1255621
Sample Reference				TP4	TP5	TP5	TP5	TP5 D
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	1.70	2.25	2.25
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	3.1	< 1.0	2.3	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	7.9	< 2.0	11	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	22	< 8.0	27	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	41	< 8.0	110	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	74	< 10	150	13	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	1.6	< 1.0	3.6	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	9.0	< 2.0	22	7.8	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	33	< 10	170	54	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	58	< 10	270	160	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	100	< 10	460	220	-
TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-

Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255617	1255618	1255619	1255620	1255621
Sample Reference				TP4	TP5	TP5	TP5	TP5 D
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	1.70	2.25	2.25
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Tri bromomethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255617	1255618	1255619	1255620	1255621
Sample Reference				TP4	TP5	TP5	TP5	TP5 D
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	1.70	2.25	2.25
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	0.84	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	0.8	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.45	-	2.5	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	1.1	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Fluorene	mg/kg	0.05	MCERTS	0.31	-	1.6	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Phenanthrene	mg/kg	0.05	MCERTS	1.7	-	13	-	-
Anthracene	mg/kg	0.05	MCERTS	0.39	-	3.0	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	0.8	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	0.8	-	-
Fluoranthene	mg/kg	0.05	MCERTS	2.4	-	15	-	-
Pyrene	mg/kg	0.05	MCERTS	2.2	-	14	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.3	-	8.2	-	-
Chrysene	mg/kg	0.05	MCERTS	1.2	-	5.9	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	-	6.9	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.49	-	3.7	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	-	6.8	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.54	-	3.0	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	-	3.5	-	-



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255622	1255623	1255624	1255625	1255626
Sample Reference				TP6	TP7	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.00	0.20	0.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	36	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	4.0	8.6	15	16
Total mass of sample received	kg	0.001	NONE	1.1	1.7	1.2	1.2	1.2

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	0.001	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	0.001	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	9.2	10.7	9.4	9.4
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	280	170	280	300	290
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.14	0.084	0.14	0.15	0.15
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	139	83.7	142	150	146
Organic Matter	%	0.1	MCERTS	7.8	0.3	2.0	4.4	2.7

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.44	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.4	< 0.05	< 0.05	0.26	0.24
Anthracene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.2	< 0.05	< 0.05	0.35	0.36
Pyrene	mg/kg	0.05	MCERTS	2.4	< 0.05	< 0.05	0.36	0.38
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2	< 0.05	< 0.05	0.29	0.30
Chrysene	mg/kg	0.05	MCERTS	1.7	< 0.05	< 0.05	0.18	0.26
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05	0.33
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.0	< 0.05	< 0.05	< 0.05	0.20
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05	0.28
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.90	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	17.3	< 0.80	< 0.80	1.44	2.35
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	33	2.1	6.4	15	18
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	< 0.2	< 0.2	0.8	1.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	59	17	18	33	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230	18	58	760	150
Lead (aqua regia extractable)	mg/kg	1	MCERTS	970	12	36	430	170
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.5	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	42	22	25	26	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	220	55	52	1100	360

Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255622	1255623	1255624	1255625	1255626
Sample Reference				TP6	TP7	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.00	0.20	0.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	2.2	5.5	2.6
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	8.2	18	11
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	33	220	120
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	44	250	130
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.9	2.1
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	3.2	< 2.0	< 2.0	5.6	6.3
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	16	< 10	< 10	14	10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	50	< 10	< 10	150	83
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	70	< 10	< 10	170	100
TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255622	1255623	1255624	1255625	1255626
Sample Reference				TP6	TP7	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.00	0.20	0.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Tri bromomethane	µg/kg	1	NONE	< 1.0	-	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	-	-



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255622	1255623	1255624	1255625	1255626
Sample Reference				TP6	TP7	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.50	1.00	0.20	0.50
Date Sampled				25/06/2019	25/06/2019	25/06/2019	25/06/2019	25/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Naphthalene	mg/kg	0.05	MCERTS	0.44	-	< 0.05	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	0.6	-	< 0.1	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Phenanthrene	mg/kg	0.05	MCERTS	1.4	-	< 0.05	-	-
Anthracene	mg/kg	0.05	MCERTS	0.29	-	< 0.05	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Fluoranthene	mg/kg	0.05	MCERTS	2.2	-	< 0.05	-	-
Pyrene	mg/kg	0.05	MCERTS	2.4	-	< 0.05	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.2	-	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	-	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.9	-	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.0	-	< 0.05	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9	-	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.90	-	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	-	< 0.05	-	-

Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255627	1255628	1255629	1255630	1255631
Sample Reference				WS1	WS1	WS1 D	WS2	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.55	2.75	4.20	0.60	0.95
Date Sampled				26/06/2019	26/06/2019	26/06/2019	25/06/2019	26/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	36	20	6.2	15
Total mass of sample received	kg	0.001	NONE	1.1	1.6	1.3	1.7	1.3

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	-	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.002	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	0.002	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.2	8.0	7.7	11.2	8.9
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	360	720	-	220	180
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	0.36	0.11	0.11	0.092
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	181	361	-	112	92.4
Organic Matter	%	0.1	MCERTS	6.3	7.1	-	0.3	2.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.31	5.3	-	< 0.05	0.94
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.66	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	5.0	-	< 0.05	1.3
Fluorene	mg/kg	0.05	MCERTS	< 0.05	6.7	-	< 0.05	0.92
Phenanthrene	mg/kg	0.05	MCERTS	1.0	8.8	-	< 0.05	5.7
Anthracene	mg/kg	0.05	MCERTS	0.15	3.0	-	< 0.05	1.1
Fluoranthene	mg/kg	0.05	MCERTS	1.3	3.8	-	< 0.05	5.9
Pyrene	mg/kg	0.05	MCERTS	1.3	4.8	-	< 0.05	5.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	3.6	-	< 0.05	3.5
Chrysene	mg/kg	0.05	MCERTS	0.95	2.3	-	< 0.05	2.6
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.2	2.4	-	< 0.05	3.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.54	0.58	-	< 0.05	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	2.3	-	< 0.05	2.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.46	0.63	-	< 0.05	1.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.51	0.78	-	< 0.05	1.5

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	9.95	50.5	-	< 0.80	37.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	67	19	-	1.9	43
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.5	-	< 0.2	1.0
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	-	< 1.2	1.6
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	160	110	-	20	220
Copper (aqua regia extractable)	mg/kg	1	MCERTS	180	110	-	20	430
Lead (aqua regia extractable)	mg/kg	1	MCERTS	670	200	-	29	1100
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	1.6	-	< 0.3	0.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	54	35	-	18	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150	130	-	48	400

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Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255627	1255628	1255629	1255630	1255631
Sample Reference				WS1	WS1	WS1 D	WS2	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.55	2.75	4.20	0.60	0.95
Date Sampled				26/06/2019	26/06/2019	26/06/2019	25/06/2019	26/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	10	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	15	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	11	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.1	-	1.4	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	18	-	5.9	3.2
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	35	-	9.5	10
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	18	75	-	39	29
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	23	130	-	55	43

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	0.083	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	7.0	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	4.2	94	-	< 2.0	4.4
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	13	170	-	< 10	18
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	58	270	-	< 10	38
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	75	540	-	< 10	60

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
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Analytical Report Number: 19-47608
Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255627	1255628	1255629	1255630	1255631
Sample Reference				WS1	WS1	WS1 D	WS2	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.55	2.75	4.20	0.60	0.95
Date Sampled				26/06/2019	26/06/2019	26/06/2019	25/06/2019	26/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	10	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	15	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	11	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	10	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	37	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	< 1.0

Analytical Report Number: 19-47608
Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255627	1255628	1255629	1255630	1255631
Sample Reference				WS1	WS1	WS1 D	WS2	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.55	2.75	4.20	0.60	0.95
Date Sampled				26/06/2019	26/06/2019	26/06/2019	25/06/2019	26/06/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	0.31	5.3	-	-	0.94
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	0.4
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	3.3	-	-	0.7
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.66	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	5.0	-	-	1.3
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	1.6	-	-	0.8
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	6.7	-	-	0.92
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	1.0	8.8	-	-	5.7
Anthracene	mg/kg	0.05	MCERTS	0.15	3.0	-	-	1.1
Carbazole	mg/kg	0.3	MCERTS	< 0.3	1.0	-	-	0.8
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	0.5	-	-	0.6
Fluoranthene	mg/kg	0.05	MCERTS	1.3	3.8	-	-	5.9
Pyrene	mg/kg	0.05	MCERTS	1.3	4.8	-	-	5.2
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	3.6	-	-	3.5
Chrysene	mg/kg	0.05	MCERTS	0.95	2.3	-	-	2.6
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.2	2.4	-	-	3.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.54	0.58	-	-	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	2.3	-	-	2.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.46	0.63	-	-	1.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.51	0.78	-	-	1.5



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255632	1255633	1255735	1255736	
Sample Reference				WS7	WS6	TP4	TP10	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.80	0.55	1.00	1.75	
Date Sampled				26/06/2019	26/06/2019	25/06/2019	25/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	16	5.4	17	20	
Total mass of sample received	kg	0.001	NONE	1.5	1.4	1.2	1.7	

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.5	11.8	7.3	7.6	
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110	190	87	140	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.055	0.094	0.044	0.071	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	55.2	94.4	43.6	71.0	
Organic Matter	%	0.1	MCERTS	1.5	0.5	2.6	2.2	

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.0	1.8	12	9.5	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.2	0.2	0.2	
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	17	16	21	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	17	120	27	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	22	19	24	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	9.8	21	24	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	61	37	63	67	

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Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255632	1255633	1255735	1255736	
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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.80	0.55	1.00	1.75	
Date Sampled				26/06/2019	26/06/2019	25/06/2019	25/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	2.5	2.5	2.3	< 2.0	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	9.3	< 8.0	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	9.5	37	13	13	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	20	49	22	21	

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
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Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255632	1255633	1255735	1255736	
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Date Sampled				26/06/2019	26/06/2019	25/06/2019	25/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Chloroethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Tetrachloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Styrene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	



Analytical Report Number: 19-47608

Project / Site name: Mondi Site, Ramsbottom

Lab Sample Number				1255632	1255633	1255735	1255736	
Sample Reference				WS7	WS6	TP4	TP10	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.80	0.55	1.00	1.75	
Date Sampled				26/06/2019	26/06/2019	25/06/2019	25/06/2019	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	< 0.2	
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Phenanthrene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	
Anthraquinone	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	
Fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Chrysene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	



Analytical Report Number: **19-47608**
Project / Site name: **Mondi Site, Ramsbottom**
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 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 representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1255613	TP1	1.00	122	Loose Fibres	Chrysotile & Amosite	< 0.001	< 0.001
1255614	TP2	0.50	119	Loose Fibres	Chrysotile & Amosite	< 0.001	< 0.001
1255615	TP3	0.15	118	Loose Fibres	Chrysotile & Amosite	< 0.001	< 0.001
1255616	TP3	1.50	128	Loose Fibres	Chrysotile	< 0.001	< 0.001
1255617	TP4	0.50	142	Loose Fibres	Chrysotile	< 0.001	< 0.001
1255619	TP5	1.70	155	Loose Fibres	Chrysotile	< 0.001	< 0.001
1255625	TP9	0.20	139	Loose Fibrous Debris	Chrysotile	0.001	0.001
1255626	TP10	0.50	161	Loose Fibres	Chrysotile	< 0.001	< 0.001
1255627	WS1	0.55	131	Loose Fibrous Debris	Chrysotile	0.002	0.002

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 19-47608

Project / Site name: Mondri Site, Ramsbottom

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1255612	TP1	None Supplied	0.10	Brown loam and clay with vegetation and gravel
1255613	TP1	None Supplied	1.00	Grey clay and sand with gravel and vegetation.
1255614	TP2	None Supplied	0.50	Brown clay and loam with gravel and vegetation.
1255615	TP3	None Supplied	0.15	Brown loam and clay with vegetation and gravel
1255616	TP3	None Supplied	1.50	Brown sandy clay with gravel and vegetation.
1255617	TP4	None Supplied	0.50	Light brown sand with gravel.
1255618	TP5	None Supplied	0.40	Light brown sand with gravel.
1255619	TP5	None Supplied	1.70	Black sandy gravel with stones and clinker**
1255620	TP5	None Supplied	2.25	Brown clay and sand.
1255621	TP5 D	None Supplied	2.25	Grey clay and sand.
1255622	TP6	None Supplied	0.50	Grey gravelly sand with clinker.
1255623	TP7	None Supplied	0.50	Grey sand with stones and gravel.
1255624	TP8	None Supplied	1.00	Brown sand with gravel and rubble.
1255625	TP9	None Supplied	0.20	Brown loam and sand with vegetation and gravel.
1255626	TP10	None Supplied	0.50	Brown loam and sand with vegetation and rubble.
1255627	WS1	None Supplied	0.55	Brown sand with gravel and clinker
1255628	WS1	None Supplied	2.75	Grey clay and sand with gravel.
1255629	WS1 D	None Supplied	4.20	Brown clay and sand.
1255630	WS2	None Supplied	0.60	Grey sand with rubble and gravel.
1255631	WS7	None Supplied	0.95	Brown clay and sand with chalk and gravel
1255632	WS7	None Supplied	1.80	Brown clay and sand.
1255633	WS6	None Supplied	0.55	Brown sand with gravel and rubble.
1255735	TP4	None Supplied	1.00	Brown clay and sand.
1255736	TP10	None Supplied	1.75	Brown clay and sand.

** NON MCERTS MATRIX

Analytical Report Number : 19-47608

Project / Site name: Mondri Site, Ramsbottom

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests"	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/cleanup.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.



Kris Rodway
Betts Geo
Old Marsh Farm
Welsh Road
Sealand
Flintshire
CH5 2LY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: Geolab@betts-associates.co.uk

Analytical Report Number : 19-48411

Project / Site name:	Mondi Site, Ramsbottom	Samples received on:	03/07/2019
Your job number:	19ECH016	Samples instructed on:	03/07/2019
Your order number:	BG3372	Analysis completed by:	10/07/2019
Report Issue Number:	1	Report issued on:	10/07/2019
Samples Analysed:	12 soil samples		

Signed:

Rexona Rahman
Head of Customer Services
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259378	1259379	1259380	1259381	1259382
Sample Reference				TP17	TP17	TP16	TP14	TP14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	1.50	0.60	0.50	1.55
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Stone Content				%	0.1	NONE	< 0.1	< 0.1
Moisture Content				%	N/A	NONE	9.4	18
Total mass of sample received				kg	0.001	NONE	1.2	1.3

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite	-	Chrysotile	Amosite & Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Detected	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	0.002	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	0.002	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.7	8.3	10.9	10.7	8.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	120	110	730	640	130
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.058	0.057	0.36	0.32	0.067
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	57.8	57.3	365	321	66.8
Organic Matter	%	0.1	MCERTS	4.9	1.7	4.5	2.9	1.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.34	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.46	< 0.05	0.44	0.24	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.83	< 0.05	0.49	0.31	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.91	< 0.05	0.52	0.36	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.92	< 0.05	< 0.05	0.30	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.60	< 0.05	< 0.05	0.24	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.0	< 0.05	< 0.05	0.28	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05	0.12	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.70	< 0.05	< 0.05	0.25	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.40	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.52	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	7.14	< 0.80	1.45	2.10	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	16	13	16	7.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.7	0.4	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	19	34	21	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	140	47	130	440	24
Lead (aqua regia extractable)	mg/kg	1	MCERTS	71	72	150	190	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	38	22	24	23	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150	120	690	260	62

Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259378	1259379	1259380	1259381	1259382
Sample Reference				TP17	TP17	TP16	TP14	TP14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	1.50	0.60	0.50	1.55
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	3.2	< 1.0	5.6	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	9.3	< 2.0	18	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	23	< 8.0	120	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	94	< 8.0	1100	74	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	130	< 10	1300	78	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	3.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	55	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	19	< 10	440	44	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	23	< 10	500	48	< 10

TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259378	1259379	1259380	1259381	1259382
Sample Reference				TP17	TP17	TP16	TP14	TP14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	1.50	0.60	0.50	1.55
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Tri bromomethane	µg/kg	1	NONE	< 1.0	-	< 1.0	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	< 1.0	< 1.0	-



Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259378	1259379	1259380	1259381	1259382
Sample Reference				TP17	TP17	TP16	TP14	TP14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	1.50	0.60	0.50	1.55
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	0.34	-	< 0.05	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	0.7	-	< 0.1	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	0.46	-	0.44	0.24	-
Anthracene	mg/kg	0.05	MCERTS	0.11	-	< 0.05	< 0.05	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	0.83	-	0.49	0.31	-
Pyrene	mg/kg	0.05	MCERTS	0.91	-	0.52	0.36	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	< 0.3	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.92	-	< 0.05	0.30	-
Chrysene	mg/kg	0.05	MCERTS	0.60	-	< 0.05	0.24	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.0	-	< 0.05	0.28	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.32	-	< 0.05	0.12	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.70	-	< 0.05	0.25	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.40	-	< 0.05	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.52	-	< 0.05	< 0.05	-

Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259378	1259379	1259380	1259381	1259382
Sample Reference				TP17	TP17	TP16	TP14	TP14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	1.50	0.60	0.50	1.55
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number	1259383	1259384	1259385	1259386	1259387
Sample Reference	TP15	TP15	TP18	TP18 D	TP11
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00	1.90	0.50	1.30	0.50
Date Sampled	02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	14
Total mass of sample received	kg	0.001	NONE	1.4	1.3

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	-	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	-	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8.2	8.6	7.6	8.8
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	110	78	420	-	59
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.056	0.039	0.21	0.053	0.029
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	56.0	39.2	209	-	29.4
Organic Matter	%	0.1	MCERTS	3.7	2.0	4.1	-	1.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.4	0.56	0.49	-	0.23
Anthracene	mg/kg	0.05	MCERTS	0.60	0.16	0.13	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.4	0.66	1.0	-	0.34
Pyrene	mg/kg	0.05	MCERTS	2.2	0.79	0.97	-	0.32
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.0	0.70	0.90	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.2	0.44	0.56	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	0.60	0.71	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.76	0.16	0.43	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.3	0.45	0.68	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.57	< 0.05	0.35	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.64	< 0.05	0.43	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.3	4.52	6.66	-	0.89
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	16	30	-	3.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.4	-	0.6
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	-	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	22	24	-	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	54	130	-	45
Lead (aqua regia extractable)	mg/kg	1	MCERTS	73	73	240	-	39
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	24	40	-	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	88	70	170	-	190

Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259383	1259384	1259385	1259386	1259387
Sample Reference				TP15	TP15	TP18	TP18 D	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.90	0.50	1.30	0.50
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	130
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	-	130
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	33	< 10	23	-	35
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	43	< 10	31	-	35
TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	< 1.0



Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259383	1259384	1259385	1259386	1259387
Sample Reference				TP15	TP15	TP18	TP18 D	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.90	0.50	1.30	0.50
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-



Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259383	1259384	1259385	1259386	1259387
Sample Reference				TP15	TP15	TP18	TP18 D	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.90	0.50	1.30	0.50
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	1.4	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	0.60	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	2.4	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	2.2	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.0	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	1.2	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.76	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.3	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.57	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.64	-	-	-	-

Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259383	1259384	1259385	1259386	1259387
Sample Reference				TP15	TP15	TP18	TP18 D	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.90	0.50	1.30	0.50
Date Sampled				02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259388	1259389			
Sample Reference				TP11	TP12			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.40	0.45			
Date Sampled				02/07/2019	02/07/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	17	12			
Total mass of sample received	kg	0.001	NONE	1.7	1.1			

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected			
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	0.095			
Asbestos Quantification Total	%	0.001	ISO 17025	-	0.095			

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	9.5			
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	220	710			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.11	0.35			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	111	355			
Organic Matter	%	0.1	MCERTS	0.9	2.6			

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.1			
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.26			
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.4			
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.3			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.87			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.64			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.86			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.31			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.73			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.38			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.49			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	8.26			
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.7	37			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.7			
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	31			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	180			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	21	160			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	34			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.3	< 1.0			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	190			

Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259388	1259389			
Sample Reference				TP11	TP12			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.40	0.45			
Date Sampled				02/07/2019	02/07/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Monoaromatics & Oxygenates								
Benzene				µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene				µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene				µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene				µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene				µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)				µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.4			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	5.5			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	17			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	87			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	110			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	47			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	57			
TPH (C5 - C10)	mg/kg	1	NONE	< 1.0	< 1.0			



Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259388	1259389			
Sample Reference				TP11	TP12			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.40	0.45			
Date Sampled				02/07/2019	02/07/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			



Analytical Report Number: 19-48411

Project / Site name: Mondri Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259388	1259389			
Sample Reference				TP11	TP12			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.40	0.45			
Date Sampled				02/07/2019	02/07/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.1			
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.26			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.4			
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.3			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.87			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.64			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.86			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.31			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.73			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.38			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.49			

Analytical Report Number: 19-48411

Project / Site name: Mondi Site, Ramsbottom

Your Order No: BG3372

Lab Sample Number				1259388	1259389			
Sample Reference				TP11	TP12			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.40	0.45			
Date Sampled				02/07/2019	02/07/2019			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Analytical Report Number : 19-48411

Project / Site name: Mondri Site, Ramsbottom

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1259378	TP17	None Supplied	0.60	Grey loam and sand with gravel and rubble.
1259379	TP17	None Supplied	1.50	Brown clay and sand.
1259380	TP16	None Supplied	0.60	Brown clay and sand with rubble and brick.
1259381	TP14	None Supplied	0.50	Brown loam and sand with rubble and vegetation.
1259382	TP14	None Supplied	1.55	Brown clay and sand.
1259383	TP15	None Supplied	1.00	Brown sand with rubble and gravel
1259384	TP15	None Supplied	1.90	Brown sand.
1259385	TP18	None Supplied	0.50	Brown sand with rubble and gravel
1259386	TP18 D	None Supplied	1.30	Grey clay and sand.
1259387	TP11	None Supplied	0.50	Brown loam and sand with rubble and vegetation.
1259388	TP11	None Supplied	1.40	Brown clay and sand.
1259389	TP12	None Supplied	0.45	Brown loam and sand with rubble.



Analytical Report Number: **19-48411**
Project / Site name: **Mondi Site, Ramsbottom**
Your Order No: **BG3372**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 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 representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1259378	TP17	0.60	139	Loose Fibres	Amosite	< 0.001	< 0.001
1259380	TP16	0.60	144	Loose Fibres & Loose Fibrous Debris	Chrysotile	0.002	0.002
1259381	TP14	0.50	132	Loose Fibres	Amosite & Chrysotile	< 0.001	< 0.001
1259383	TP15	1.00	176	Loose Fibres	Chrysotile	< 0.001	< 0.001
1259387	TP11	0.50	180	Loose Fibres	Chrysotile	< 0.001	< 0.001
1259389	TP12	0.45	133	Loose Fibrous Debris	Chrysotile	0.095	0.095

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 19-48411

Project / Site name: Mondri Site, Ramsbottom

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oc.



Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
TP18		S	19-48411	1259385	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
TP18		S	19-48411	1259385	b	Speciated EPA-16 PAHs in soil	L064-PL	b
TP18		S	19-48411	1259385	b	TPH in (Soil)	L076-PL	b
TP18		S	19-48411	1259385	b	TPHCWG (Soil)	L088/76-PL	b

Waste Classification Report



L2X7R-USUCD-PPA5U

Job name

Mondi Site

Description/Comments

Project

19ECH016

Site

Mondi Site

Related Documents

#	Name	Description
None		

Waste Stream Template

Betts Suite B - Env Lab Template

Classified by

Name:
Beverley Lewis
Date:
26 Nov 2019 16:51 GMT
Telephone:
01244 288 179

Company:
betts geoenvironmental ltd
Unit 6-7, Old Marsh Farm Barn
Welsh Rd, Sealand
Deeside
CH5 2LY

Report

Created by: Beverley Lewis
Created date: 26 Nov 2019 16:51 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	TP1	0.1	Non Hazardous		3
2	TP1[2]	1.00	Non Hazardous		6
3	TP2	0.50	Non Hazardous		9
4	TP3	0.15	Non Hazardous		12
5	TP3[2]	1.50	Hazardous	HP 7, HP 11	15
6	TP4	0.50	Non Hazardous		18
7	TP5	0.40	Non Hazardous		21
8	TP5[2]	1.70	Non Hazardous		23
9	TP5[3]	2.25	Non Hazardous		26
10	TP6	0.50	Non Hazardous		29
11	TP7	0.50	Non Hazardous		32
12	TP8	1.00	Non Hazardous		34

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
13	TP9	0.20	Hazardous	HP 14	36
14	TP10	0.50	Non Hazardous		39
15	WS1	0.55	Non Hazardous		42
16	WS1[2]	2.75	Non Hazardous	HP 7	45
17	WS2	0.60	Non Hazardous		48
18	WS7	0.95	Hazardous		50
19	WS7[2]	1.80	Non Hazardous	HP 8	53
20	WS6	0.55	Hazardous		55
21	TP4[2]	1.00	Non Hazardous		57
22	TP10[2]	1.75	Non Hazardous	HP 7	59
23	WS8	0.50	Non Hazardous		61
24	WS8[2]	1.80	Non Hazardous		64
25	WS9	0.60	Non Hazardous	HP 7	66
26	WS9[2]	1.00	Non Hazardous		68
27	WS10	1.00	Non Hazardous		70
28	WS11	0.50	Non Hazardous	HP 7	73
29	WS12	0.35	Non Hazardous		76
30	WS13	0.35	Non Hazardous		79
31	WS14	0.25	Non Hazardous	HP 7	81
32	WS15	0.90	Non Hazardous		84
33	WS16	0.75	Non Hazardous		86
34	WS16[2]	2.00	Hazardous	HP 7	88
35	WS17	0.45	Non Hazardous		90
36	WS18	0.35	Non Hazardous		92
37	TP17	0.6	Non Hazardous	HP 7	95
38	TP17[2]	1.5	Non Hazardous		98
39	TP16	0.6	Non Hazardous		100
40	TP14	0.5	Non Hazardous	HP 7	103
41	TP14[2]	1.55	Non Hazardous		106
42	TP15	1	Non Hazardous		108
43	TP15[2]	1.9	Non Hazardous	HP 7	111
44	TP18	0.5	Non Hazardous		113
45	TP11	0.5	Non Hazardous		116
46	TP11[2]	1.4	Non Hazardous	HP 7	119
47	TP12	0.45	Non Hazardous		121

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	124
Appendix B: Rationale for selection of metal species	125
Appendix C: Version	126

Classification of sample: TP1

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.6	pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				21	mg/kg	1.32	27.727	mg/kg	0.00277 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				110	mg/kg	1.126	123.848	mg/kg	0.0124 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	290	mg/kg		290	mg/kg	0.029 %		
	082-001-00-6											
7	mercury { mercury dichloride }				0.7	mg/kg	1.353	0.947	mg/kg	0.0000947 %		
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				27	mg/kg	2.976	80.359	mg/kg	0.00804 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				280	mg/kg	2.469	691.403	mg/kg	0.0691 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	asbestos				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
12	acenaphthene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		5.3 mg/kg		5.3 mg/kg	0.00053 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	16 mg/kg		16 mg/kg	0.0016 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	15 mg/kg		15 mg/kg	0.0015 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	17 mg/kg		17 mg/kg	0.0017 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		9.1 mg/kg		9.1 mg/kg	0.00091 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	9.6 mg/kg		9.6 mg/kg	0.00096 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	15 mg/kg		15 mg/kg	0.0015 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	2.4 mg/kg		2.4 mg/kg	0.00024 %			
22	fluoranthene	205-912-4	206-44-0		33 mg/kg		33 mg/kg	0.0033 %			
23	fluorene	201-695-5	86-73-7		2.2 mg/kg		2.2 mg/kg	0.00022 %			
24	indeno[123-cd]pyrene	205-893-2	193-39-5		8.2 mg/kg		8.2 mg/kg	0.00082 %			
25	naphthalene	601-052-00-2	202-049-5	91-20-3	1.1 mg/kg		1.1 mg/kg	0.00011 %			
26	phenanthrene	201-581-5	85-01-8		18 mg/kg		18 mg/kg	0.0018 %			
27	pyrene	204-927-3	129-00-0		32 mg/kg		32 mg/kg	0.0032 %			
28	TPH (C6 to C40) petroleum group		TPH		730 mg/kg		730 mg/kg	0.073 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.214 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.073%)

Classification of sample: TP1[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP1[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.00 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.6 pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				30 mg/kg	1.32	39.61	mg/kg	0.00396 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8	mg/kg	0.00008 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				130 mg/kg	1.126	146.365	mg/kg	0.0146 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	280 mg/kg		280	mg/kg	0.028 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				33 mg/kg	2.976	98.217	mg/kg	0.00982 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				240 mg/kg	2.469	592.631	mg/kg	0.0593 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				3.5 mg/kg		3.5	mg/kg	0.00035 %		
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	anthracene	204-371-1	120-12-7		3.9 mg/kg		3.9 mg/kg	0.00039 %		
15	benzo[a]anthracene	601-033-00-9	200-280-6		12 mg/kg		12 mg/kg	0.0012 %		
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		10 mg/kg		10 mg/kg	0.001 %		
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		13 mg/kg		13 mg/kg	0.0013 %		
18	benzo[ghi]perylene	205-883-8	191-24-2		5.5 mg/kg		5.5 mg/kg	0.00055 %		
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		3.8 mg/kg		3.8 mg/kg	0.00038 %		
20	chrysene	601-048-00-0	205-923-4		9.1 mg/kg		9.1 mg/kg	0.00091 %		
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		1.4 mg/kg		1.4 mg/kg	0.00014 %		
22	fluoranthene	205-912-4	206-44-0		22 mg/kg		22 mg/kg	0.0022 %		
23	fluorene	201-695-5	86-73-7		2.7 mg/kg		2.7 mg/kg	0.00027 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		4.7 mg/kg		4.7 mg/kg	0.00047 %		
25	naphthalene	601-052-00-2	202-049-5		1.3 mg/kg		1.3 mg/kg	0.00013 %		
26	phenanthrene	201-581-5	85-01-8		17 mg/kg		17 mg/kg	0.0017 %		
27	pyrene	204-927-3	129-00-0		20 mg/kg		20 mg/kg	0.002 %		
28	TPH (C6 to C40) petroleum group		TPH		900 mg/kg		900 mg/kg	0.09 %		
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.22 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.09%)

Classification of sample: TP2

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP2	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.50 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.1	pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }				27	mg/kg	1.32	35.649	mg/kg	0.00356 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				170	mg/kg	1.126	191.401	mg/kg	0.0191 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	260	mg/kg		260	mg/kg	0.026 %		
	082-001-00-6											
7	mercury { mercury dichloride }				1	mg/kg	1.353	1.353	mg/kg	0.000135 %		
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				33	mg/kg	2.976	98.217	mg/kg	0.00982 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				250	mg/kg	2.469	617.324	mg/kg	0.0617 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	asbestos				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
12	acenaphthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		3.2 mg/kg		3.2 mg/kg	0.00032 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	9.6 mg/kg		9.6 mg/kg	0.00096 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	9.3 mg/kg		9.3 mg/kg	0.00093 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	13 mg/kg		13 mg/kg	0.0013 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		5.4 mg/kg		5.4 mg/kg	0.00054 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	3.2 mg/kg		3.2 mg/kg	0.00032 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	8.4 mg/kg		8.4 mg/kg	0.00084 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	1.5 mg/kg		1.5 mg/kg	0.00015 %			
22	fluoranthene	205-912-4	206-44-0		20 mg/kg		20 mg/kg	0.002 %			
23	fluorene	201-695-5	86-73-7		1.2 mg/kg		1.2 mg/kg	0.00012 %			
24	indeno[123-cd]pyrene	205-893-2	193-39-5		4.7 mg/kg		4.7 mg/kg	0.00047 %			
25	naphthalene	601-052-00-2	202-049-5	91-20-3	1 mg/kg		1 mg/kg	0.0001 %			
26	phenanthrene	201-581-5	85-01-8		11 mg/kg		11 mg/kg	0.0011 %			
27	pyrene	204-927-3	129-00-0		19 mg/kg		19 mg/kg	0.0019 %			
28	TPH (C6 to C40) petroleum group		TPH		750 mg/kg		750 mg/kg	0.075 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.208 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.075%)

Classification of sample: TP3



Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP3	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.6 pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				25 mg/kg	1.32	33.008	mg/kg	0.0033 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914	mg/kg	0.0000914 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				150 mg/kg	1.126	168.883	mg/kg	0.0169 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	250 mg/kg		250	mg/kg	0.025 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				39 mg/kg	2.976	116.074	mg/kg	0.0116 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				280 mg/kg	2.469	691.403	mg/kg	0.0691 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				5.6 mg/kg		5.6	mg/kg	0.00056 %		
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		0.32 mg/kg		0.32 mg/kg	0.000032 %			
14	anthracene	204-371-1	120-12-7		7 mg/kg		7 mg/kg	0.0007 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6		25 mg/kg		25 mg/kg	0.0025 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		23 mg/kg		23 mg/kg	0.0023 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		28 mg/kg		28 mg/kg	0.0028 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		11 mg/kg		11 mg/kg	0.0011 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		7 mg/kg		7 mg/kg	0.0007 %			
20	chrysene	601-048-00-0	205-923-4		19 mg/kg		19 mg/kg	0.0019 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		3 mg/kg		3 mg/kg	0.0003 %			
22	fluoranthene	205-912-4	206-44-0		42 mg/kg		42 mg/kg	0.0042 %			
23	fluorene	201-695-5	86-73-7		4.3 mg/kg		4.3 mg/kg	0.00043 %			
24	indeno[123-cd]pyrene	205-893-2	193-39-5		9.7 mg/kg		9.7 mg/kg	0.00097 %			
25	naphthalene	601-052-00-2	202-049-5		3.5 mg/kg		3.5 mg/kg	0.00035 %			
26	phenanthrene	201-581-5	85-01-8		32 mg/kg		32 mg/kg	0.0032 %			
27	pyrene	204-927-3	129-00-0		39 mg/kg		39 mg/kg	0.0039 %			
28	TPH (C6 to C40) petroleum group		TPH		940 mg/kg		940 mg/kg	0.094 %			
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.247 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

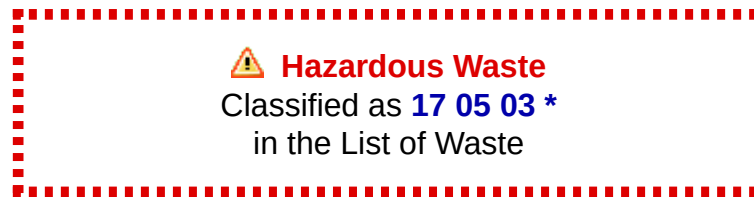
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.094%)

Classification of sample: TP3[2]



Sample details

Sample Name:	LoW Code:
TP3[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH		PH		7.5 pH		7.5 pH	7.5 pH		
2	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727 mg/kg	0.00277 %		
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %		
	048-002-00-0	215-146-2	1306-19-0							
4	copper { dicopper oxide; copper (I) oxide }				84 mg/kg	1.126	94.575 mg/kg	0.00946 %		
	029-002-00-X	215-270-7	1317-39-1							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	220 mg/kg		220 mg/kg	0.022 %		
	082-001-00-6									
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				37 mg/kg	2.976	110.122 mg/kg	0.011 %		
	028-035-00-7	238-766-5	14721-18-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				210 mg/kg	2.469	518.552 mg/kg	0.0519 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				13 mg/kg		13 mg/kg	0.0013 %			
		201-469-6	83-32-9								
13	acenaphthylene				0.43 mg/kg		0.43 mg/kg	0.000043 %			
		205-917-1	208-96-8								
14	anthracene				15 mg/kg		15 mg/kg	0.0015 %			
		204-371-1	120-12-7								
15	benzo[a]anthracene				39 mg/kg		39 mg/kg	0.0039 %			
	601-033-00-9	200-280-6	56-55-3								
16	benzo[a]pyrene; benzo[def]chrysene				34 mg/kg		34 mg/kg	0.0034 %			
	601-032-00-3	200-028-5	50-32-8								
17	benzo[b]fluoranthene				38 mg/kg		38 mg/kg	0.0038 %			
	601-034-00-4	205-911-9	205-99-2								
18	benzo[ghi]perylene				17 mg/kg		17 mg/kg	0.0017 %			
		205-883-8	191-24-2								
19	benzo[k]fluoranthene				18 mg/kg		18 mg/kg	0.0018 %			
	601-036-00-5	205-916-6	207-08-9								
20	chrysene				30 mg/kg		30 mg/kg	0.003 %			
	601-048-00-0	205-923-4	218-01-9								
21	dibenz[a,h]anthracene				4.1 mg/kg		4.1 mg/kg	0.00041 %			
	601-041-00-2	200-181-8	53-70-3								
22	fluoranthene				74 mg/kg		74 mg/kg	0.0074 %			
		205-912-4	206-44-0								
23	fluorene				10 mg/kg		10 mg/kg	0.001 %			
		201-695-5	86-73-7								
24	indeno[123-cd]pyrene				15 mg/kg		15 mg/kg	0.0015 %			
		205-893-2	193-39-5								
25	naphthalene				8.6 mg/kg		8.6 mg/kg	0.00086 %			
	601-052-00-2	202-049-5	91-20-3								
26	phenanthrene				61 mg/kg		61 mg/kg	0.0061 %			
		201-581-5	85-01-8								
27	pyrene				69 mg/kg		69 mg/kg	0.0069 %			
		204-927-3	129-00-0								
28	TPH (C6 to C40) petroleum group				1100 mg/kg		1100 mg/kg	0.11 %			
			TPH								
29	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
30	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
31	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
32	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]								

CONSULTING ENGINEERS											
#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane					<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

Classification of sample: TP4

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP4	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.3 pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				7.3 mg/kg	1.32	9.638	mg/kg	0.000964 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				32 mg/kg	1.126	36.028	mg/kg	0.0036 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	34 mg/kg		34	mg/kg	0.0034 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				26 mg/kg	2.976	77.383	mg/kg	0.00774 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				94 mg/kg	2.469	232.114	mg/kg	0.0232 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				0.45 mg/kg		0.45	mg/kg	0.000045 %		
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	anthracene	204-371-1	120-12-7		0.39 mg/kg		0.39 mg/kg	0.000039 %		
15	benzo[a]anthracene	601-033-00-9	200-280-6		1.3 mg/kg		1.3 mg/kg	0.00013 %		
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		1.2 mg/kg		1.2 mg/kg	0.00012 %		
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		1.4 mg/kg		1.4 mg/kg	0.00014 %		
18	benzo[ghi]perylene	205-883-8	191-24-2		0.63 mg/kg		0.63 mg/kg	0.000063 %		
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.49 mg/kg		0.49 mg/kg	0.000049 %		
20	chrysene	601-048-00-0	205-923-4		1.2 mg/kg		1.2 mg/kg	0.00012 %		
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	fluoranthene	205-912-4	206-44-0		2.4 mg/kg		2.4 mg/kg	0.00024 %		
23	fluorene	201-695-5	86-73-7		0.31 mg/kg		0.31 mg/kg	0.000031 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.54 mg/kg		0.54 mg/kg	0.000054 %		
25	naphthalene	601-052-00-2	202-049-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	phenanthrene	201-581-5	85-01-8		1.7 mg/kg		1.7 mg/kg	0.00017 %		
27	pyrene	204-927-3	129-00-0		2.2 mg/kg		2.2 mg/kg	0.00022 %		
28	TPH (C6 to C40) petroleum group		TPH		100 mg/kg		100 mg/kg	0.01 %		
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0515 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.01%)

Classification of sample: TP5

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP5	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.40 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.4	pH		8.4	pH	8.4 pH		
2	arsenic { arsenic trioxide }				6.5	mg/kg	1.32	8.582	mg/kg	0.000858 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	31.525	mg/kg	0.00315 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	120	mg/kg		120	mg/kg	0.012 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				20	mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				47	mg/kg	2.469	116.057	mg/kg	0.0116 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.0358 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP5[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP5[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.70 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.8	pH		7.8	pH	7.8 pH		
2	arsenic { arsenic trioxide }				46	mg/kg	1.32	60.735	mg/kg	0.00607 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				240	mg/kg	1.126	270.213	mg/kg	0.027 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	170	mg/kg		170	mg/kg	0.017 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				57	mg/kg	2.976	169.647	mg/kg	0.017 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				250	mg/kg	2.469	617.324	mg/kg	0.0617 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	asbestos				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
12	acenaphthene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		3 mg/kg		3 mg/kg	0.0003 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	8.2 mg/kg		8.2 mg/kg	0.00082 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	6.8 mg/kg		6.8 mg/kg	0.00068 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	6.9 mg/kg		6.9 mg/kg	0.00069 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		3.5 mg/kg		3.5 mg/kg	0.00035 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	3.7 mg/kg		3.7 mg/kg	0.00037 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	5.9 mg/kg		5.9 mg/kg	0.00059 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		15 mg/kg		15 mg/kg	0.0015 %			
23	fluorene	201-695-5	86-73-7		1.6 mg/kg		1.6 mg/kg	0.00016 %			
24	indeno[123-cd]pyrene	205-893-2	193-39-5		3 mg/kg		3 mg/kg	0.0003 %			
25	naphthalene	601-052-00-2	202-049-5	91-20-3	0.84 mg/kg		0.84 mg/kg	0.000084 %			
26	phenanthrene	201-581-5	85-01-8		13 mg/kg		13 mg/kg	0.0013 %			
27	pyrene	204-927-3	129-00-0		14 mg/kg		14 mg/kg	0.0014 %			
28	TPH (C6 to C40) petroleum group		TPH		460 mg/kg		460 mg/kg	0.046 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.185 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.046%)

Classification of sample: TP5[3]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP5[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.25 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.3 pH		7.3	pH	7.3 pH		
2	arsenic { arsenic trioxide }				53 mg/kg	1.32	69.977	mg/kg	0.007 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				130 mg/kg	1.126	146.365	mg/kg	0.0146 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	170 mg/kg		170	mg/kg	0.017 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				28 mg/kg	2.976	83.335	mg/kg	0.00833 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				76 mg/kg	2.469	187.667	mg/kg	0.0188 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				0.63 mg/kg		0.63	mg/kg	0.000063 %		
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				0.57 mg/kg		0.57	mg/kg	0.000057 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				2.1 mg/kg		2.1	mg/kg	0.00021 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				1.8 mg/kg		1.8 mg/kg		0.00018 %		
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				1.5 mg/kg		1.5 mg/kg		0.00015 %		
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				0.65 mg/kg		0.65 mg/kg		0.000065 %		
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				0.74 mg/kg		0.74 mg/kg		0.000074 %		
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				1.3 mg/kg		1.3 mg/kg		0.00013 %		
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				1.8 mg/kg		1.8 mg/kg		0.00018 %		
		205-912-4	206-44-0								
22	fluorene				0.91 mg/kg		0.91 mg/kg		0.000091 %		
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				0.55 mg/kg		0.55 mg/kg		0.000055 %		
		205-893-2	193-39-5								
24	naphthalene				0.58 mg/kg		0.58 mg/kg		0.000058 %		
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				1.1 mg/kg		1.1 mg/kg		0.00011 %		
		201-581-5	85-01-8								
26	pyrene				2.4 mg/kg		2.4 mg/kg		0.00024 %		
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				220 mg/kg		220 mg/kg		0.022 %		
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.0906 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.022%)

Classification of sample: TP6

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP6	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.50 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				33	mg/kg	1.32	43.571	mg/kg	0.00436 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				230	mg/kg	1.126	258.954	mg/kg	0.0259 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	970	mg/kg		970	mg/kg	0.097 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				42	mg/kg	2.976	125.003	mg/kg	0.0125 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				220	mg/kg	2.469	543.245	mg/kg	0.0543 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
		204-371-1	120-12-7									
14	benzo[a]anthracene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
	601-033-00-9	200-280-6	56-55-3									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzo[a]pyrene; benzo[def]chrysene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
	601-032-00-3	200-028-5	50-32-8									
16	benzo[b]fluoranthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
	601-034-00-4	205-911-9	205-99-2									
17	benzo[ghi]perylene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		205-883-8	191-24-2									
18	benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
	601-036-00-5	205-916-6	207-08-9									
19	chrysene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
	601-048-00-0	205-923-4	218-01-9									
20	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
21	fluoranthene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		205-912-4	206-44-0									
22	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		205-893-2	193-39-5									
24	naphthalene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
	601-052-00-2	202-049-5	91-20-3									
25	phenanthrene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		201-581-5	85-01-8									
26	pyrene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		204-927-3	129-00-0									
27	TPH (C6 to C40) petroleum group				70	mg/kg		70	mg/kg	0.007 %		
			TPH									
28	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
29	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
30	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
31	xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.204 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.007%)

Classification of sample: TP7

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP7	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.50 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				9.2 pH		9.2	pH	9.2 pH		
2	arsenic { arsenic trioxide }				2.1 mg/kg	1.32	2.773	mg/kg	0.000277 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266	mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	12 mg/kg		12	mg/kg	0.0012 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				22 mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				55 mg/kg	2.469	135.811	mg/kg	0.0136 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0259 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP8

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP8	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	● pH				10.7 pH		10.7	pH	10.7 pH		
2	● arsenic { arsenic trioxide }				6.4 mg/kg	1.32	8.45	mg/kg	0.000845 %		
	033-003-00-0	215-481-4	1327-53-3								
3	● cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	● copper { dicopper oxide; copper (I) oxide }				58 mg/kg	1.126	65.302	mg/kg	0.00653 %		
	029-002-00-X	215-270-7	1317-39-1								
5	● chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	● lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	36 mg/kg		36	mg/kg	0.0036 %		
	082-001-00-6										
7	● mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	● nickel { nickel chromate }				25 mg/kg	2.976	74.407	mg/kg	0.00744 %		
	028-035-00-7	238-766-5	14721-18-7								
9	● selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	● zinc { zinc sulphate }				52 mg/kg	2.469	128.403	mg/kg	0.0128 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	● acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	● acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	● anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0335 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP9

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP9	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.20 m	

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

zinc sulphate: (compound conc.: 0.272%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				9.4	pH		9.4	pH	9.4 pH		
2	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
3	cadmium { cadmium oxide }				0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %		
4	copper { dicopper oxide; copper (I) oxide }				760	mg/kg	1.126	855.675	mg/kg	0.0856 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	430	mg/kg		430	mg/kg	0.043 %		
7	mercury { mercury dichloride }				0.5	mg/kg	1.353	0.677	mg/kg	0.0000677 %		
8	nickel { nickel chromate }				26	mg/kg	2.976	77.383	mg/kg	0.00774 %		
9	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
10	zinc { zinc sulphate }				1100	mg/kg	2.469	2716.226	mg/kg	0.272 %		
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.29 mg/kg		0.29 mg/kg	0.000029 %			
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
16	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
17	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	chrysene	601-048-00-0	205-923-4	218-01-9	0.18 mg/kg		0.18 mg/kg	0.000018 %			
20	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	fluoranthene	205-912-4	206-44-0		0.35 mg/kg		0.35 mg/kg	0.000035 %			
22	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	phenanthrene	201-581-5	85-01-8		0.26 mg/kg		0.26 mg/kg	0.000026 %			
26	pyrene	204-927-3	129-00-0		0.36 mg/kg		0.36 mg/kg	0.000036 %			
27	TPH (C6 to C40) petroleum group		TPH		170 mg/kg		170 mg/kg	0.017 %			
28	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
29	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.428 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.017%)

Classification of sample: TP10

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP10	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.50 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				9.4	pH		9.4	pH	9.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	150	mg/kg	1.126	168.883	mg/kg	0.0169 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			170	mg/kg		170	mg/kg	0.017 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	0.8	mg/kg	1.353	1.083	mg/kg	0.000108 %		
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	23	mg/kg	2.976	68.454	mg/kg	0.00685 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
10	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	360	mg/kg	2.469	888.947	mg/kg	0.0889 %		
11	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
12	acenaphthene		201-469-6	83-32-9	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.3 mg/kg		0.3 mg/kg	0.00003 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.28 mg/kg		0.28 mg/kg	0.000028 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.33 mg/kg		0.33 mg/kg	0.000033 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.2 mg/kg		0.2 mg/kg	0.00002 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.26 mg/kg		0.26 mg/kg	0.000026 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.36 mg/kg		0.36 mg/kg	0.000036 %			
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.24 mg/kg		0.24 mg/kg	0.000024 %			
27	pyrene	204-927-3	129-00-0		0.38 mg/kg		0.38 mg/kg	0.000038 %			
28	TPH (C6 to C40) petroleum group		TPH		100 mg/kg		100 mg/kg	0.01 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.144 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.01%)

Classification of sample: WS1

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.55 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	● pH				10.2 pH		10.2	pH	10.2 pH		
2	● arsenic { arsenic trioxide }				67 mg/kg	1.32	88.462	mg/kg	0.00885 %		
	033-003-00-0	215-481-4	1327-53-3								
3	● cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	● copper { dicopper oxide; copper (I) oxide }				180 mg/kg	1.126	202.66	mg/kg	0.0203 %		
	029-002-00-X	215-270-7	1317-39-1								
5	● chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	● lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	670 mg/kg		670	mg/kg	0.067 %		
	082-001-00-6										
7	● mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	● nickel { nickel chromate }				54 mg/kg	2.976	160.718	mg/kg	0.0161 %		
	028-035-00-7	238-766-5	14721-18-7								
9	● selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	● zinc { zinc sulphate }				150 mg/kg	2.469	370.394	mg/kg	0.037 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	● acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	● acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	● anthracene				0.15 mg/kg		0.15	mg/kg	0.000015 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				1.2 mg/kg		1.2	mg/kg	0.00012 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				1.1 mg/kg		1.1 mg/kg	0.00011 %		
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				1.2 mg/kg		1.2 mg/kg	0.00012 %		
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				0.51 mg/kg		0.51 mg/kg	0.000051 %		
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				0.54 mg/kg		0.54 mg/kg	0.000054 %		
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				0.95 mg/kg		0.95 mg/kg	0.000095 %		
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
		205-893-2	193-39-5							
24	naphthalene				0.31 mg/kg		0.31 mg/kg	0.000031 %		
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				1 mg/kg		1 mg/kg	0.0001 %		
		201-581-5	85-01-8							
26	pyrene				1.3 mg/kg		1.3 mg/kg	0.00013 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				75 mg/kg		75 mg/kg	0.0075 %		
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.159 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0075%)

Classification of sample: WS1[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS1[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.75 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8 pH		8 pH		8pH		
2	arsenic { arsenic trioxide }				19 mg/kg	1.32	25.086 mg/kg		0.00251 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.571 mg/kg		0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				110 mg/kg	1.126	123.848 mg/kg		0.0124 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg		<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	200 mg/kg		200 mg/kg		0.02 %		
	082-001-00-6										
7	mercury { mercury dichloride }				1.6 mg/kg	1.353	2.166 mg/kg		0.000217 %		
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				35 mg/kg	2.976	104.169 mg/kg		0.0104 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg		<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				130 mg/kg	2.469	321.009 mg/kg		0.0321 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				5 mg/kg		5 mg/kg		0.0005 %		
		201-469-6	83-32-9								
12	acenaphthylene				0.66 mg/kg		0.66 mg/kg		0.000066 %		
		205-917-1	208-96-8								
13	anthracene				3 mg/kg		3 mg/kg		0.0003 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				3.6 mg/kg		3.6 mg/kg		0.00036 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzo[a]pyrene; benzo[def]chrysene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
	601-032-00-3	200-028-5	50-32-8									
16	benzo[b]fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
	601-034-00-4	205-911-9	205-99-2									
17	benzo[ghi]perylene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
		205-883-8	191-24-2									
18	benzo[k]fluoranthene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
	601-036-00-5	205-916-6	207-08-9									
19	chrysene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
	601-048-00-0	205-923-4	218-01-9									
20	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
21	fluoranthene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
		205-912-4	206-44-0									
22	fluorene				6.7	mg/kg		6.7	mg/kg	0.00067 %		
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
		205-893-2	193-39-5									
24	naphthalene				5.3	mg/kg		5.3	mg/kg	0.00053 %		
	601-052-00-2	202-049-5	91-20-3									
25	phenanthrene				8.8	mg/kg		8.8	mg/kg	0.00088 %		
		201-581-5	85-01-8									
26	pyrene				4.8	mg/kg		4.8	mg/kg	0.00048 %		
		204-927-3	129-00-0									
27	TPH (C6 to C40) petroleum group				540	mg/kg		540	mg/kg	0.054 %		
			TPH									
28	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
29	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
30	ethylbenzene				10	mg/kg		10	mg/kg	0.001 %		
	601-023-00-4	202-849-4	100-41-4									
31	xylene				15	mg/kg		15	mg/kg	0.0015 %		
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				11	mg/kg		11	mg/kg	0.0011 %		
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.141 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.001%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.054%)

xylene: (conc.: 0.0015%)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 0.0011%)

Classification of sample: WS2

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS2	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.60 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				11.2 pH		11.2	pH	11.2 pH		
2	arsenic { arsenic trioxide }				1.9 mg/kg	1.32	2.509	mg/kg	0.000251 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				20 mg/kg	1.126	22.518	mg/kg	0.00225 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	29 mg/kg		29	mg/kg	0.0029 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				18 mg/kg	2.976	53.573	mg/kg	0.00536 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				48 mg/kg	2.469	118.526	mg/kg	0.0119 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0248 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS7

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS7	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.95 m	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.9	pH		8.9	pH	8.9 pH		
2	arsenic { arsenic trioxide }				43	mg/kg	1.32	56.774	mg/kg	0.00568 %		
3	cadmium { cadmium oxide }				1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
4	copper { dicopper oxide; copper (I) oxide }				430	mg/kg	1.126	484.132	mg/kg	0.0484 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.6	mg/kg	1.923	3.077	mg/kg	0.000308 %		
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1100	mg/kg		1100	mg/kg	0.11 %		
7	mercury { mercury dichloride }				0.7	mg/kg	1.353	0.947	mg/kg	0.0000947 %		
8	nickel { nickel chromate }				17	mg/kg	2.976	50.597	mg/kg	0.00506 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
10	zinc { zinc sulphate }				400	mg/kg	2.469	987.719	mg/kg	0.0988 %		
11	acenaphthene				1.3	mg/kg		1.3	mg/kg	0.00013 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
13	anthracene	204-371-1	120-12-7		1.1 mg/kg		1.1 mg/kg	0.00011 %		
14	benzo[a]anthracene	601-033-00-9	200-280-6		3.5 mg/kg		3.5 mg/kg	0.00035 %		
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		2.8 mg/kg		2.8 mg/kg	0.00028 %		
16	benzo[b]fluoranthene	601-034-00-4	205-911-9		3.2 mg/kg		3.2 mg/kg	0.00032 %		
17	benzo[ghi]perylene	205-883-8	191-24-2		1.5 mg/kg		1.5 mg/kg	0.00015 %		
18	benzo[k]fluoranthene	601-036-00-5	205-916-6		1.4 mg/kg		1.4 mg/kg	0.00014 %		
19	chrysene	601-048-00-0	205-923-4		2.6 mg/kg		2.6 mg/kg	0.00026 %		
20	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	fluoranthene	205-912-4	206-44-0		5.9 mg/kg		5.9 mg/kg	0.00059 %		
22	fluorene	201-695-5	86-73-7		0.92 mg/kg		0.92 mg/kg	0.000092 %		
23	indeno[123-cd]pyrene	205-893-2	193-39-5		1.3 mg/kg		1.3 mg/kg	0.00013 %		
24	naphthalene	601-052-00-2	202-049-5		0.94 mg/kg		0.94 mg/kg	0.000094 %		
25	phenanthrene	201-581-5	85-01-8		5.7 mg/kg		5.7 mg/kg	0.00057 %		
26	pyrene	204-927-3	129-00-0		5.2 mg/kg		5.2 mg/kg	0.00052 %		
27	TPH (C6 to C40) petroleum group		TPH		60 mg/kg		60 mg/kg	0.006 %		
28	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
29	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.279 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"

Force this Hazardous property to non hazardous because Concentration of Chromium VI is very low therefore has been discounted

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.0003%)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.006%)

Classification of sample: WS7[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS7[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.80 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

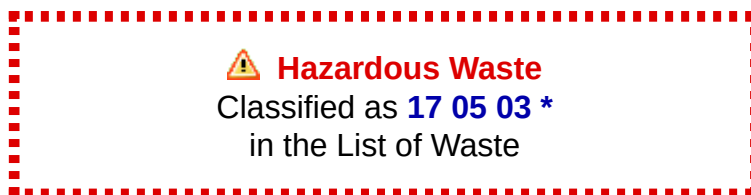
#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.5	pH		8.5	pH	8.5 pH		
2	arsenic { arsenic trioxide }				6	mg/kg	1.32	7.922	mg/kg	0.000792 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	23.644	mg/kg	0.00236 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	16	mg/kg		16	mg/kg	0.0016 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				22	mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				61	mg/kg	2.469	150.627	mg/kg	0.0151 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MIC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
15		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-032-00-3	200-028-5	50-32-8										
16		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-034-00-4	205-911-9	205-99-2										
17	■	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2										
18		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-036-00-5	205-916-6	207-08-9										
19		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-048-00-0	205-923-4	218-01-9										
20		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-041-00-2	200-181-8	53-70-3										
21	■	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-912-4	206-44-0										
22	■	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-695-5	86-73-7										
23	■	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-893-2	193-39-5										
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-052-00-2	202-049-5	91-20-3										
25	■	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-581-5	85-01-8										
26	■	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			204-927-3	129-00-0										
27	■	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD	
				TPH										
28		benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2										
29		toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3										
30	■	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4										
31		xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
32		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4										
Total:												0.0286 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS6



Sample details

Sample Name:	LoW Code:
WS6	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.55 m	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.8 pH)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				11.8	pH		11.8	pH	11.8 pH		
2	arsenic { arsenic trioxide }				1.8	mg/kg	1.32	2.377	mg/kg	0.000238 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.228	mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	19.14	mg/kg	0.00191 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	22	mg/kg		22	mg/kg	0.0022 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				9.8	mg/kg	2.976	29.167	mg/kg	0.00292 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				37	mg/kg	2.469	91.364	mg/kg	0.00914 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
16	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
17	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
20	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
27	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
28	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
29	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.0186 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP4[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
TP4[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.3	pH		7.3	pH	7.3 pH		
2	arsenic { arsenic trioxide }				12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.228	mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				120	mg/kg	1.126	135.107	mg/kg	0.0135 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	19	mg/kg		19	mg/kg	0.0019 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				21	mg/kg	2.976	62.502	mg/kg	0.00625 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				63	mg/kg	2.469	155.566	mg/kg	0.0156 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
15		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-032-00-3	200-028-5	50-32-8										
16		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-034-00-4	205-911-9	205-99-2										
17	■	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2										
18		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-036-00-5	205-916-6	207-08-9										
19		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-048-00-0	205-923-4	218-01-9										
20		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-041-00-2	200-181-8	53-70-3										
21	■	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-912-4	206-44-0										
22	■	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-695-5	86-73-7										
23	■	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-893-2	193-39-5										
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-052-00-2	202-049-5	91-20-3										
25	■	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-581-5	85-01-8										
26	■	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			204-927-3	129-00-0										
27	■	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD	
				TPH										
28		benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2										
29		toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3										
30	■	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4										
31		xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
32		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4										
Total:												0.041 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP10[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP10[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.75 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.6	pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				9.5	mg/kg	1.32	12.543	mg/kg	0.00125 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.228	mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				27	mg/kg	1.126	30.399	mg/kg	0.00304 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	24	mg/kg		24	mg/kg	0.0024 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				24	mg/kg	2.976	71.43	mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				67	mg/kg	2.469	165.443	mg/kg	0.0165 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
15		benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-032-00-3	200-028-5	50-32-8								
16		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-034-00-4	205-911-9	205-99-2								
17	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2								
18		benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-036-00-5	205-916-6	207-08-9								
19		chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-048-00-0	205-923-4	218-01-9								
20		dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
21	■	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-912-4	206-44-0								
22	■	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			201-695-5	86-73-7								
23	■	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-893-2	193-39-5								
24		naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-052-00-2	202-049-5	91-20-3								
25	■	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			201-581-5	85-01-8								
26	■	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			204-927-3	129-00-0								
27	■	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
				TPH								
28		benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
29		toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
30	■	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
31		xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]								
			203-396-5 [2]	106-42-3 [2]								
			203-576-3 [3]	108-38-3 [3]								
			215-535-7 [4]	1330-20-7 [4]								
32		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]								
			203-396-5 [2]	106-42-3 [2]								
			203-576-3 [3]	108-38-3 [3]								
			215-535-7 [4]	1330-20-7 [4]								
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
Total:										0.0326 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS8

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS8	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.50 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.2	pH		7.2	pH	7.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	67	mg/kg	1.126	75.435	mg/kg	0.00754 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			77	mg/kg		77	mg/kg	0.0077 %		
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
8	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	43	mg/kg	2.976	127.979	mg/kg	0.0128 %		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
10	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	100	mg/kg	2.469	246.93	mg/kg	0.0247 %		
11	acenaphthene		201-469-6	83-32-9	1.8	mg/kg		1.8	mg/kg	0.00018 %		
12	acenaphthylene		205-917-1	208-96-8	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
13	anthracene		204-371-1	120-12-7	2.1	mg/kg		2.1	mg/kg	0.00021 %		
14	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	6.5	mg/kg		6.5	mg/kg	0.00065 %		

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzo[a]pyrene; benzo[def]chrysene				4.9	mg/kg		4.9	mg/kg	0.00049 %		
	601-032-00-3	200-028-5	50-32-8									
16	benzo[b]fluoranthene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
	601-034-00-4	205-911-9	205-99-2									
17	benzo[ghi]perylene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
		205-883-8	191-24-2									
18	benzo[k]fluoranthene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
	601-036-00-5	205-916-6	207-08-9									
19	chrysene				5.3	mg/kg		5.3	mg/kg	0.00053 %		
	601-048-00-0	205-923-4	218-01-9									
20	dibenz[a,h]anthracene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
	601-041-00-2	200-181-8	53-70-3									
21	fluoranthene				14	mg/kg		14	mg/kg	0.0014 %		
		205-912-4	206-44-0									
22	fluorene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		205-893-2	193-39-5									
24	naphthalene				0.89	mg/kg		0.89	mg/kg	0.000089 %		
	601-052-00-2	202-049-5	91-20-3									
25	phenanthrene				11	mg/kg		11	mg/kg	0.0011 %		
		201-581-5	85-01-8									
26	pyrene				13	mg/kg		13	mg/kg	0.0013 %		
		204-927-3	129-00-0									
27	TPH (C6 to C40) petroleum group				320	mg/kg		320	mg/kg	0.032 %		
			TPH									
28	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
29	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
30	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
31	xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.095 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.032%)

Classification of sample: WS8[2]



Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS8[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.80 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.1 pH		7.1	pH	7.1 pH		
2	arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602	mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343	mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	21.392	mg/kg	0.00214 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	15 mg/kg		15	mg/kg	0.0015 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				45 mg/kg	2.976	133.932	mg/kg	0.0134 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				99 mg/kg	2.469	244.46	mg/kg	0.0244 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0444 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS9

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS9	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.60 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.4 pH		7.4	pH	7.4 pH		
2	arsenic { arsenic trioxide }				25 mg/kg	1.32	33.008	mg/kg	0.0033 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				310 mg/kg	1.126	349.025	mg/kg	0.0349 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	36 mg/kg		36	mg/kg	0.0036 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				32 mg/kg	2.976	95.24	mg/kg	0.00952 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				51 mg/kg	2.469	125.934	mg/kg	0.0126 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				0.23 mg/kg		0.23	mg/kg	0.000023 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				0.43 mg/kg		0.43	mg/kg	0.000043 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				0.33 mg/kg		0.33 mg/kg	0.000033 %		
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				0.63 mg/kg		0.63 mg/kg	0.000063 %		
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				0.74 mg/kg		0.74 mg/kg	0.000074 %		
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				0.22 mg/kg		0.22 mg/kg	0.000022 %		
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
		201-581-5	85-01-8							
26	pyrene				0.82 mg/kg		0.82 mg/kg	0.000082 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0667 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS9[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS9[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.6 pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				8.6 mg/kg	1.32	11.355	mg/kg	0.00114 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	30.399	mg/kg	0.00304 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	16 mg/kg		16	mg/kg	0.0016 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				13 mg/kg	2.976	38.691	mg/kg	0.00387 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				35 mg/kg	2.469	86.425	mg/kg	0.00864 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				0.19 mg/kg		0.19	mg/kg	0.000019 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				0.33 mg/kg		0.33	mg/kg	0.000033 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				0.54 mg/kg		0.54 mg/kg	0.000054 %			
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				0.69 mg/kg		0.69 mg/kg	0.000069 %			
		205-912-4	206-44-0								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				1 mg/kg		1 mg/kg	0.0001 %			
		201-581-5	85-01-8								
26	pyrene				0.67 mg/kg		0.67 mg/kg	0.000067 %			
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.0208 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS10

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS10	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.6 pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485	mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				61 mg/kg	1.126	68.679	mg/kg	0.00687 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	65 mg/kg		65	mg/kg	0.0065 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				21 mg/kg	2.976	62.502	mg/kg	0.00625 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				69 mg/kg	2.469	170.381	mg/kg	0.017 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				4.4 mg/kg		4.4	mg/kg	0.00044 %		
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				11 mg/kg		11	mg/kg	0.0011 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				20 mg/kg		20	mg/kg	0.002 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				14 mg/kg		14 mg/kg	0.0014 %		
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				12 mg/kg		12 mg/kg	0.0012 %		
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				5.4 mg/kg		5.4 mg/kg	0.00054 %		
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				7.9 mg/kg		7.9 mg/kg	0.00079 %		
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				17 mg/kg		17 mg/kg	0.0017 %		
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				1.5 mg/kg		1.5 mg/kg	0.00015 %		
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				34 mg/kg		34 mg/kg	0.0034 %		
		205-912-4	206-44-0							
22	fluorene				6.3 mg/kg		6.3 mg/kg	0.00063 %		
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				4.3 mg/kg		4.3 mg/kg	0.00043 %		
		205-893-2	193-39-5							
24	naphthalene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				41 mg/kg		41 mg/kg	0.0041 %		
		201-581-5	85-01-8							
26	pyrene				37 mg/kg		37 mg/kg	0.0037 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				550 mg/kg		550 mg/kg	0.055 %		
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.116 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.055%)

Classification of sample: WS11

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS11	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.1	pH		7.1	pH	7.1 pH		
2	arsenic { arsenic trioxide }				42	mg/kg	1.32	55.454	mg/kg	0.00555 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				160	mg/kg	1.126	180.142	mg/kg	0.018 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	130	mg/kg		130	mg/kg	0.013 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				49	mg/kg	2.976	145.837	mg/kg	0.0146 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				2.7	mg/kg	2.554	6.895	mg/kg	0.000689 %		
	034-002-00-8											
10	zinc { zinc sulphate }				140	mg/kg	2.469	345.701	mg/kg	0.0346 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				3.4	mg/kg		3.4	mg/kg	0.00034 %		
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
		204-371-1	120-12-7									
14	benzo[a]anthracene				8.1	mg/kg		8.1	mg/kg	0.00081 %		
	601-033-00-9	200-280-6	56-55-3									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzo[a]pyrene; benzo[def]chrysene				7.2	mg/kg		7.2	mg/kg	0.00072 %		
	601-032-00-3	200-028-5	50-32-8									
16	benzo[b]fluoranthene				8.3	mg/kg		8.3	mg/kg	0.00083 %		
	601-034-00-4	205-911-9	205-99-2									
17	benzo[ghi]perylene				3.4	mg/kg		3.4	mg/kg	0.00034 %		
		205-883-8	191-24-2									
18	benzo[k]fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
	601-036-00-5	205-916-6	207-08-9									
19	chrysene				8.8	mg/kg		8.8	mg/kg	0.00088 %		
	601-048-00-0	205-923-4	218-01-9									
20	dibenz[a,h]anthracene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
	601-041-00-2	200-181-8	53-70-3									
21	fluoranthene				17	mg/kg		17	mg/kg	0.0017 %		
		205-912-4	206-44-0									
22	fluorene				3	mg/kg		3	mg/kg	0.0003 %		
		201-695-5	86-73-7									
23	indeno[123-cd]pyrene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
		205-893-2	193-39-5									
24	naphthalene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
	601-052-00-2	202-049-5	91-20-3									
25	phenanthrene				16	mg/kg		16	mg/kg	0.0016 %		
		201-581-5	85-01-8									
26	pyrene				15	mg/kg		15	mg/kg	0.0015 %		
		204-927-3	129-00-0									
27	TPH (C6 to C40) petroleum group				350	mg/kg		350	mg/kg	0.035 %		
			TPH									
28	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
29	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
30	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
31	xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
Total:										0.133 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.035%)

Classification of sample: WS12

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS12	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.35 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.3 pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	8.714	mg/kg	0.000871 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				39 mg/kg	1.126	43.91	mg/kg	0.00439 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	52 mg/kg		52	mg/kg	0.0052 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				20 mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				77 mg/kg	2.469	190.136	mg/kg	0.019 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				4.5 mg/kg		4.5	mg/kg	0.00045 %		
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				10 mg/kg		10	mg/kg	0.001 %		
		204-371-1	120-12-7								
14	benzo[a]anthracene				8.5 mg/kg		8.5	mg/kg	0.00085 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				7.2 mg/kg		7.2 mg/kg	0.00072 %		
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				7.8 mg/kg		7.8 mg/kg	0.00078 %		
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				4.5 mg/kg		4.5 mg/kg	0.00045 %		
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				5 mg/kg		5 mg/kg	0.0005 %		
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				8.5 mg/kg		8.5 mg/kg	0.00085 %		
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				0.88 mg/kg		0.88 mg/kg	0.00088 %		
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				26 mg/kg		26 mg/kg	0.0026 %		
		205-912-4	206-44-0							
22	fluorene				5.3 mg/kg		5.3 mg/kg	0.00053 %		
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				3.5 mg/kg		3.5 mg/kg	0.00035 %		
		205-893-2	193-39-5							
24	naphthalene				13 mg/kg		13 mg/kg	0.0013 %		
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				20 mg/kg		20 mg/kg	0.002 %		
		201-581-5	85-01-8							
26	pyrene				23 mg/kg		23 mg/kg	0.0023 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				300 mg/kg		300 mg/kg	0.03 %		
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0814 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.03%)

Classification of sample: WS13

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS13	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.35 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				9.3	pH		9.3	pH	9.3 pH		
2	arsenic { arsenic trioxide }				6.9	mg/kg	1.32	9.11	mg/kg	0.000911 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				40	mg/kg	1.126	45.036	mg/kg	0.0045 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	31	mg/kg		31	mg/kg	0.0031 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				26	mg/kg	2.976	77.383	mg/kg	0.00774 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				68	mg/kg	2.469	167.912	mg/kg	0.0168 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MIC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
15		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-032-00-3	200-028-5	50-32-8										
16		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-034-00-4	205-911-9	205-99-2										
17	■	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2										
18		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-036-00-5	205-916-6	207-08-9										
19		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-048-00-0	205-923-4	218-01-9										
20		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-041-00-2	200-181-8	53-70-3										
21	■	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-912-4	206-44-0										
22	■	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-695-5	86-73-7										
23	■	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			205-893-2	193-39-5										
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		601-052-00-2	202-049-5	91-20-3										
25	■	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			201-581-5	85-01-8										
26	■	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
			204-927-3	129-00-0										
27	■	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD	
				TPH										
28		benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2										
29		toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3										
30	■	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4										
31		xylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
32		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]										
			203-396-5 [2]	106-42-3 [2]										
			203-576-3 [3]	108-38-3 [3]										
			215-535-7 [4]	1330-20-7 [4]										
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4										
Total:												0.0353 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS14

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS14	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				11	pH		11	pH	11pH		
2	arsenic { arsenic trioxide }				14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				66	mg/kg	1.126	74.309	mg/kg	0.00743 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	110	mg/kg		110	mg/kg	0.011 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				20	mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				210	mg/kg	2.469	518.552	mg/kg	0.0519 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
	601-033-00-9	200-280-6	56-55-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				0.24 mg/kg		0.24 mg/kg	0.000024 %			
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				0.28 mg/kg		0.28 mg/kg	0.000028 %			
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				0.19 mg/kg		0.19 mg/kg	0.000019 %			
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				0.31 mg/kg		0.31 mg/kg	0.000031 %			
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				0.66 mg/kg		0.66 mg/kg	0.000066 %			
		205-912-4	206-44-0								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				0.63 mg/kg		0.63 mg/kg	0.000063 %			
		201-581-5	85-01-8								
26	pyrene				0.55 mg/kg		0.55 mg/kg	0.000055 %			
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				250 mg/kg		250 mg/kg	0.025 %			
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.105 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.025%)

Classification of sample: WS15

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS15	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.3 pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203	mg/kg	0.00132 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				36 mg/kg	1.126	40.532	mg/kg	0.00405 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	15 mg/kg		15	mg/kg	0.0015 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				27 mg/kg	2.976	80.359	mg/kg	0.00804 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.8 mg/kg	2.554	4.596	mg/kg	0.00046 %		
	034-002-00-8										
10	zinc { zinc sulphate }				51 mg/kg	2.469	125.934	mg/kg	0.0126 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0299 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS16

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS16	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.75 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

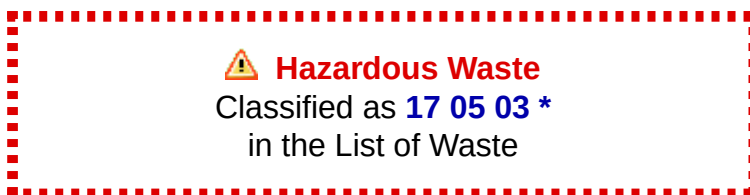
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8 pH		8	pH	8pH		
2	arsenic { arsenic trioxide }				140 mg/kg	1.32	184.846	mg/kg	0.0185 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				140 mg/kg	1.126	157.624	mg/kg	0.0158 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	470 mg/kg		470	mg/kg	0.047 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				24 mg/kg	2.976	71.43	mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				110 mg/kg	2.469	271.623	mg/kg	0.0272 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.118 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS16[2]



Sample details

Sample Name:	LoW Code:
WS16[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.00 m	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.6	pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				160	mg/kg	1.32	211.252	mg/kg	0.0211 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				320	mg/kg	1.126	360.284	mg/kg	0.036 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1100	mg/kg		1100	mg/kg	0.11 %		
	082-001-00-6											
7	mercury { mercury dichloride }				0.6	mg/kg	1.353	0.812	mg/kg	0.0000812 %		
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				36	mg/kg	2.976	107.146	mg/kg	0.0107 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				72	mg/kg	2.469	177.789	mg/kg	0.0178 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
13	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	fluoranthene	205-912-4	206-44-0		0.21 mg/kg		0.21 mg/kg	0.000021 %		
22	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	naphthalene	601-052-00-2	202-049-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.43 mg/kg		0.43 mg/kg	0.000043 %		
26	pyrene	204-927-3	129-00-0		0.21 mg/kg		0.21 mg/kg	0.000021 %		
27	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
28	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
29	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.198 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS17

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS17	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.45 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.9 pH		8.9	pH	8.9 pH		
2	arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602	mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228	mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	42.784	mg/kg	0.00428 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	76 mg/kg		76	mg/kg	0.0076 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				13 mg/kg	2.976	38.691	mg/kg	0.00387 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				54 mg/kg	2.469	133.342	mg/kg	0.0133 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		201-581-5	85-01-8							
26	pyrene				0.26 mg/kg		0.26 mg/kg	0.000026 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.032 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: WS18

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS18	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.35 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				10.9 pH		10.9	pH	10.9 pH		
2	arsenic { arsenic trioxide }				8.5 mg/kg	1.32	11.223	mg/kg	0.00112 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914	mg/kg	0.0000914 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				120 mg/kg	1.126	135.107	mg/kg	0.0135 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	49 mg/kg		49	mg/kg	0.0049 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				79 mg/kg	2.976	235.125	mg/kg	0.0235 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				230 mg/kg	2.469	567.938	mg/kg	0.0568 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				160 mg/kg		160 mg/kg	0.016 %			
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.117 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.016%)

Classification of sample: TP17

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP17	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.6 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.7	pH		8.7	pH	8.7 pH		
2	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.343	mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				140	mg/kg	1.126	157.624	mg/kg	0.0158 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	71	mg/kg		71	mg/kg	0.0071 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				38	mg/kg	2.976	113.098	mg/kg	0.0113 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				150	mg/kg	2.469	370.394	mg/kg	0.037 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	asbestos				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
12	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		0.11 mg/kg		0.11 mg/kg	0.000011 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.92 mg/kg		0.92 mg/kg	0.000092 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.7 mg/kg		0.7 mg/kg	0.00007 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1 mg/kg		1 mg/kg	0.0001 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		0.52 mg/kg		0.52 mg/kg	0.000052 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.32 mg/kg		0.32 mg/kg	0.000032 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.6 mg/kg		0.6 mg/kg	0.00006 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.83 mg/kg		0.83 mg/kg	0.000083 %			
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.4 mg/kg		0.4 mg/kg	0.00004 %			
25	naphthalene	601-052-00-2	202-049-5	91-20-3	0.34 mg/kg		0.34 mg/kg	0.000034 %			
26	phenanthrene	201-581-5	85-01-8		0.46 mg/kg		0.46 mg/kg	0.000046 %			
27	pyrene	204-927-3	129-00-0		0.91 mg/kg		0.91 mg/kg	0.000091 %			
28	TPH (C6 to C40) petroleum group		TPH		23 mg/kg		23 mg/kg	0.0023 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.0774 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0023%)

Classification of sample: TP17[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP17[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.3 pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125	mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343	mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				47 mg/kg	1.126	52.917	mg/kg	0.00529 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	72 mg/kg		72	mg/kg	0.0072 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				22 mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				120 mg/kg	2.469	296.316	mg/kg	0.0296 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.053 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP16

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP16	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.6 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				10.9 pH		10.9	pH	10.9 pH		
2	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164	mg/kg	0.00172 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8	mg/kg	0.00008 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				130 mg/kg	1.126	146.365	mg/kg	0.0146 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150 mg/kg		150	mg/kg	0.015 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				24 mg/kg	2.976	71.43	mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				690 mg/kg	2.469	1703.815	mg/kg	0.17 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				0.002 mg/kg		0.002	mg/kg	0.0000002 %		
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
15	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
18	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
20	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.49 mg/kg		0.49 mg/kg	0.000049 %			
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	naphthalene	601-052-00-2	202-049-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.44 mg/kg		0.44 mg/kg	0.000044 %			
27	pyrene	204-927-3	129-00-0		0.52 mg/kg		0.52 mg/kg	0.000052 %			
28	TPH (C6 to C40) petroleum group		TPH		500 mg/kg		500 mg/kg	0.05 %			
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.26 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.05%)

Classification of sample: TP14

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
TP14	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				10.7	pH		10.7	pH	10.7 pH		
2	arsenic { arsenic trioxide }				16	mg/kg	1.32	21.125	mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				440	mg/kg	1.126	495.391	mg/kg	0.0495 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	190	mg/kg		190	mg/kg	0.019 %		
	082-001-00-6											
7	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				23	mg/kg	2.976	68.454	mg/kg	0.00685 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				260	mg/kg	2.469	642.017	mg/kg	0.0642 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	asbestos				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
12	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.3 mg/kg		0.3 mg/kg	0.00003 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.25 mg/kg		0.25 mg/kg	0.000025 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.28 mg/kg		0.28 mg/kg	0.000028 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.12 mg/kg		0.12 mg/kg	0.000012 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.24 mg/kg		0.24 mg/kg	0.000024 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.31 mg/kg		0.31 mg/kg	0.000031 %			
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.24 mg/kg		0.24 mg/kg	0.000024 %			
27	pyrene	204-927-3	129-00-0		0.36 mg/kg		0.36 mg/kg	0.000036 %			
28	TPH (C6 to C40) petroleum group		TPH		48 mg/kg		48 mg/kg	0.0048 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.148 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0048%)

Classification of sample: TP14[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
TP14[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.55 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.1 pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }				7.7 mg/kg	1.32	10.167	mg/kg	0.00102 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				24 mg/kg	1.126	27.021	mg/kg	0.0027 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	15 mg/kg		15	mg/kg	0.0015 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				23 mg/kg	2.976	68.454	mg/kg	0.00685 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				62 mg/kg	2.469	153.096	mg/kg	0.0153 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
13	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
14	benzo[a]anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0296 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP15

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP15	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.4 pH		8.4	pH	8.4 pH		
2	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727	mg/kg	0.00277 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343	mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				120 mg/kg	1.126	135.107	mg/kg	0.0135 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	73 mg/kg		73	mg/kg	0.0073 %		
	082-001-00-6										
7	mercury { mercury dichloride }				0.4 mg/kg	1.353	0.541	mg/kg	0.0000541 %		
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				27 mg/kg	2.976	80.359	mg/kg	0.00804 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				88 mg/kg	2.469	217.298	mg/kg	0.0217 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	anthracene	204-371-1	120-12-7		0.6 mg/kg		0.6 mg/kg	0.00006 %		
15	benzo[a]anthracene	601-033-00-9	200-280-6		2 mg/kg		2 mg/kg	0.0002 %		
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		1.3 mg/kg		1.3 mg/kg	0.00013 %		
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		1.4 mg/kg		1.4 mg/kg	0.00014 %		
18	benzo[ghi]perylene	205-883-8	191-24-2		0.64 mg/kg		0.64 mg/kg	0.000064 %		
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.76 mg/kg		0.76 mg/kg	0.000076 %		
20	chrysene	601-048-00-0	205-923-4		1.2 mg/kg		1.2 mg/kg	0.00012 %		
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	fluoranthene	205-912-4	206-44-0		2.4 mg/kg		2.4 mg/kg	0.00024 %		
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.57 mg/kg		0.57 mg/kg	0.000057 %		
25	naphthalene	601-052-00-2	202-049-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	phenanthrene	201-581-5	85-01-8		1.4 mg/kg		1.4 mg/kg	0.00014 %		
27	pyrene	204-927-3	129-00-0		2.2 mg/kg		2.2 mg/kg	0.00022 %		
28	TPH (C6 to C40) petroleum group		TPH		43 mg/kg		43 mg/kg	0.0043 %		
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0603 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0043%)

Classification of sample: TP15[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
TP15[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.9 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH				8.2 pH		8.2 pH	8.2 pH		
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
4	copper { dicopper oxide; copper (I) oxide }				54 mg/kg	1.126	60.798 mg/kg	0.00608 %		
	029-002-00-X	215-270-7	1317-39-1							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	73 mg/kg		73 mg/kg	0.0073 %		
	082-001-00-6									
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				24 mg/kg	2.976	71.43 mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				70 mg/kg	2.469	172.851 mg/kg	0.0173 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
12	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
13	anthracene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		204-371-1	120-12-7							
14	benzo[a]anthracene				0.7 mg/kg		0.7 mg/kg	0.00007 %		
	601-033-00-9	200-280-6	56-55-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	benzo[a]pyrene; benzo[def]chrysene				0.45 mg/kg		0.45 mg/kg	0.000045 %		
	601-032-00-3	200-028-5	50-32-8							
16	benzo[b]fluoranthene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
	601-034-00-4	205-911-9	205-99-2							
17	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
18	benzo[k]fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
	601-036-00-5	205-916-6	207-08-9							
19	chrysene				0.44 mg/kg		0.44 mg/kg	0.000044 %		
	601-048-00-0	205-923-4	218-01-9							
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
21	fluoranthene				0.66 mg/kg		0.66 mg/kg	0.000066 %		
		205-912-4	206-44-0							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
25	phenanthrene				0.56 mg/kg		0.56 mg/kg	0.000056 %		
		201-581-5	85-01-8							
26	pyrene				0.79 mg/kg		0.79 mg/kg	0.000079 %		
		204-927-3	129-00-0							
27	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0426 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP18

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP18	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.5 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				8.6 pH	8.6 pH		
2	arsenic { arsenic trioxide }				30 mg/kg	0.00396 %		
	033-003-00-0	215-481-4	1327-53-3					
3	cadmium { cadmium oxide }				0.4 mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0					
4	copper { dicopper oxide; copper (I) oxide }				130 mg/kg	0.0146 %		
	029-002-00-X	215-270-7	1317-39-1					
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0					
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	240 mg/kg	0.024 %		
	082-001-00-6							
7	mercury { mercury dichloride }				<0.3 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7					
8	nickel { nickel chromate }				40 mg/kg	0.0119 %		
	028-035-00-7	238-766-5	14721-18-7					
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	<0.000255 %		<LOD
	034-002-00-8							
10	zinc { zinc sulphate }				170 mg/kg	0.042 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					
11	acenaphthene				<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9					
12	acenaphthylene				<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8					
13	anthracene				0.13 mg/kg	0.000013 %		
		204-371-1	120-12-7					
14	benzo[a]anthracene				0.9 mg/kg	0.00009 %		
	601-033-00-9	200-280-6	56-55-3					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzo[a]pyrene; benzo[def]chrysene				0.68 mg/kg		0.68 mg/kg	0.000068 %			
	601-032-00-3	200-028-5	50-32-8								
16	benzo[b]fluoranthene				0.71 mg/kg		0.71 mg/kg	0.000071 %			
	601-034-00-4	205-911-9	205-99-2								
17	benzo[ghi]perylene				0.43 mg/kg		0.43 mg/kg	0.000043 %			
		205-883-8	191-24-2								
18	benzo[k]fluoranthene				0.43 mg/kg		0.43 mg/kg	0.000043 %			
	601-036-00-5	205-916-6	207-08-9								
19	chrysene				0.56 mg/kg		0.56 mg/kg	0.000056 %			
	601-048-00-0	205-923-4	218-01-9								
20	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
21	fluoranthene				1 mg/kg		1 mg/kg	0.0001 %			
		205-912-4	206-44-0								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	indeno[123-cd]pyrene				0.35 mg/kg		0.35 mg/kg	0.000035 %			
		205-893-2	193-39-5								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	phenanthrene				0.49 mg/kg		0.49 mg/kg	0.000049 %			
		201-581-5	85-01-8								
26	pyrene				0.97 mg/kg		0.97 mg/kg	0.000097 %			
		204-927-3	129-00-0								
27	TPH (C6 to C40) petroleum group				31 mg/kg		31 mg/kg	0.0031 %			
			TPH								
28	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
29	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
30	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
31	xylene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
32	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
Total:									0.101 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: TP11

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP11	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.8 pH		8.8	pH	8.8 pH		
2	arsenic { arsenic trioxide }				3.9 mg/kg	1.32	5.149	mg/kg	0.000515 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				45 mg/kg	1.126	50.665	mg/kg	0.00507 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	39 mg/kg		39	mg/kg	0.0039 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				14 mg/kg	2.976	41.668	mg/kg	0.00417 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				190 mg/kg	2.469	469.166	mg/kg	0.0469 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	fluoranthene	205-912-4	206-44-0		0.34 mg/kg		0.34 mg/kg	0.000034 %		
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	naphthalene	601-052-00-2	202-049-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	phenanthrene	201-581-5	85-01-8		0.23 mg/kg		0.23 mg/kg	0.000023 %		
27	pyrene	204-927-3	129-00-0		0.32 mg/kg		0.32 mg/kg	0.000032 %		
28	TPH (C6 to C40) petroleum group		TPH		35 mg/kg		35 mg/kg	0.0035 %		
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0654 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0035%)

Classification of sample: TP11[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
TP11[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.4 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }				2.7	mg/kg	1.32	3.565	mg/kg	0.000356 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	20.266	mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	21	mg/kg		21	mg/kg	0.0021 %		
	082-001-00-6											
7	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				18	mg/kg	2.976	53.573	mg/kg	0.00536 %		
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.3	mg/kg	2.554	3.32	mg/kg	0.000332 %		
	034-002-00-8											
10	zinc { zinc sulphate }				46	mg/kg	2.469	113.588	mg/kg	0.0114 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
12	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
13	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
14	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
15		benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-032-00-3	200-028-5	50-32-8								
16		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-034-00-4	205-911-9	205-99-2								
17	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2								
18		benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-036-00-5	205-916-6	207-08-9								
19		chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-048-00-0	205-923-4	218-01-9								
20		dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
21	■	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-912-4	206-44-0								
22	■	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			201-695-5	86-73-7								
23	■	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-893-2	193-39-5								
24		naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		601-052-00-2	202-049-5	91-20-3								
25	■	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			201-581-5	85-01-8								
26	■	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			204-927-3	129-00-0								
27	■	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
				TPH								
28		benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
29		toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
30	■	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
31		xylene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]								
			203-396-5 [2]	106-42-3 [2]								
			203-576-3 [3]	108-38-3 [3]								
			215-535-7 [4]	1330-20-7 [4]								
32		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		601-022-00-9	202-422-2 [1]	95-47-6 [1]								
			203-396-5 [2]	106-42-3 [2]								
			203-576-3 [3]	108-38-3 [3]								
			215-535-7 [4]	1330-20-7 [4]								
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
Total:										0.0235 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: TP12

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	TP12	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.45 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				9.5 pH		9.5	pH	9.5 pH		
2	arsenic { arsenic trioxide }				37 mg/kg	1.32	48.852	mg/kg	0.00489 %		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8	mg/kg	0.00008 %		
	048-002-00-0	215-146-2	1306-19-0								
4	copper { dicopper oxide; copper (I) oxide }				180 mg/kg	1.126	202.66	mg/kg	0.0203 %		
	029-002-00-X	215-270-7	1317-39-1								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2 mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	160 mg/kg		160	mg/kg	0.016 %		
	082-001-00-6										
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				34 mg/kg	2.976	101.193	mg/kg	0.0101 %		
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				190 mg/kg	2.469	469.166	mg/kg	0.0469 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	asbestos				0.095 mg/kg		0.095	mg/kg	0.0000095 %		
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								
12	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
14	anthracene	204-371-1	120-12-7		0.26 mg/kg		0.26 mg/kg	0.000026 %			
15	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.87 mg/kg		0.87 mg/kg	0.000087 %			
16	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.73 mg/kg		0.73 mg/kg	0.000073 %			
17	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.86 mg/kg		0.86 mg/kg	0.000086 %			
18	benzo[ghi]perylene	205-883-8	191-24-2		0.49 mg/kg		0.49 mg/kg	0.000049 %			
19	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.31 mg/kg		0.31 mg/kg	0.000031 %			
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.64 mg/kg		0.64 mg/kg	0.000064 %			
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluoranthene	205-912-4	206-44-0		1.4 mg/kg		1.4 mg/kg	0.00014 %			
23	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.38 mg/kg		0.38 mg/kg	0.000038 %			
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene	201-581-5	85-01-8		1.1 mg/kg		1.1 mg/kg	0.00011 %			
27	pyrene	204-927-3	129-00-0		1.3 mg/kg		1.3 mg/kg	0.00013 %			
28	TPH (C6 to C40) petroleum group		TPH		57 mg/kg		57 mg/kg	0.0057 %			
29	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.106 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because The hazard phase HP3(i) refers to flammable liquids however as the material is a solid this is not applicable and has been discounted

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0057%)

Appendix A: Classifier defined and non CLP determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

• lead compounds with the exception of those specified elsewhere in this Annex (worst case)

CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 1; Carcinogenic to humans; Lead REACH Consortium considers some lead compounds Carcinogenic category 1A
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium
www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

• acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

• anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

• fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

• **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s)/Risk Phrase(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worst case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Chromium VI concentration is low therefore species unlikely to be Lead Chromate

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc sulphate}

Chromium VI not detected therefore species unlikely to be Zinc Chromate

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2019.316.4053.8153 (12 Nov 2019)

HazWasteOnline Database: 2019.316.4053.8153 (12 Nov 2019)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

APPENDIX G

- (i) Geotechnical Testing Results (N/A)

APPENDIX H

(i) Gas Monitoring Data

Date of Monitoring: 11/07/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Overcast with dark cloud, dry, cool, calm.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	N/A
Other Comments/Observations:	Pressure steady.

Date of Monitoring: 7/8/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Blue sky with heavy cloud, occasional rain with sunny intervals, cool, wet.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	N/A
Other Comments/Observations:	Pressure rising.

Date of Monitoring: 20/08/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Blue sky with moderate cloud and sunny intervals, cool, damp.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	N/A
Other Comments/Observations:	Pressure rising.

Date of Monitoring: 04/09/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Overcast with moderate cloud, heavy rain, calm, cool, wet.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	WS8 - vehicle parked in front of access.
Other Comments/Observations:	Pressure stable.

Date of Monitoring: 24/09/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Overcast with moderate cloud, occasional drizzle, calm, cool, wet.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	N/A
Other Comments/Observations:	Pressure rising.

Date of Monitoring: 23/10/19

Notes: Monitoring order is left to right across the table Monitoring should be for not less than 3 minutes. However, if high concentrations of gases are initially recorded, monitoring should be for up to 10 minutes
--

Relevant Information at the Time of Monitoring	
Monitored by:	RD
Weather:	Overcast with light fog, dry, calm, cool.
Equipment Used:	GA5000
	Solinst Mini Interface Meter
Visible signs of damage/stress:	N/A
Other Comments/Observations:	Pressure falling.

APPENDIX I

(i) Conceptual Model

The report aims to identify land which could potentially be affected by contamination, such that it could affect the value or re-use of the land, or such that mitigation would be required for certain proposed end uses of the land.

The assessment also aims to identify land which would be regarded as 'contaminated land' under the terms of the Environmental Protection Act 1990, Part IIa. This act includes a stricter test for contaminated land than that outlined above. Land is considered to be contaminated if either:

- the land is causing significant harm to people, ecosystems or infrastructure; or
- there is a significant possibility that such harm could be caused; or
- Pollution of controlled waters is being, or is likely to be, caused.

The following situations are defined as being where harm is to be regarded as significant:

- chronic or quite toxic effect, serious injury or death to humans;
- irreversible or other adverse harm to the ecological system;
- substantial damage to or failure of buildings;
- death of, or disease or other physical damage affecting, livestock or crops;
- Pollution of controlled waters.

The risk assessment uses a 'Source-Pathway-Receptor' methodology for assessing whether a source of contamination could potentially lead to harmful consequences. This means that there needs to be a pollutant linkage from source to receptor for harm to be caused, this linkage consisting of:

- a source of pollution;
- a pathway for the pollutant to move along;
- A receptor that is affected by the pollutant.

As an example, the pollutant source could be an identified leak of oil or an area of dumped waste.



The pathways could include transport of the contaminant by groundwater, surface water, windblown dust, or

vapours, and for human receptors will include the means, by which contaminants enter the body, for example skin contact, ingestion and inhalation.

Receptors include people, other living organisms, the built environment and groundwater and surface waters (these latter two also being contaminant pathways).

The source-pathway-receptor methodology relationship allows an assessment of the environmental risk to be determined, based on the nature of the source, the degree of exposure of the receptor to the source and the sensitivity of the receptor.

This section of the report is based on the information set out in the previous sections of the report and should not be read independently of such sections.

Initial Conceptual Model

From the available information the preliminary conceptual model is visualised as follows:

Target (Receptor)	POTENTIAL SOURCE-PATHWAY LINKAGE
Site Users / Residents	Inhalation of soil gas, odours or dust.
	Ingestion of, and skin contact with, contaminated soil.
	Ingestion of contaminants in vegetables etc. or in soils adhering to vegetables, etc.
Construction/ Maintenance Workers.	Inhalation of soil gas, odours or dust
	Ingestion of, and skin contact with, contaminated soil
Plants	Adverse effects on growth caused by presence of contaminants in soil
Buildings and Structures	Flow of ground gas into buildings. Asphyxiation, toxicity, explosion and fire hazards
	Sulphate attack of foundations
	Hydrocarbons penetrating plastic water supply pipes
Groundwater	Migration of soluble contaminants into groundwater on or off site. Migration of oils into groundwater on or off site.
Surface Water	Migration of soluble contaminants and/or direct run-off of contaminants. Migration of oils into groundwater on or off site.

Initial Environmental Risk Assessment

General

It is accepted that an environmental risk assessment can be based on a source-pathway-target model. An examination is carried out as to whether a target will be at risk from a contamination source, that a source exists, and whether there are any pathways (routes of exposure) which might actually link the source to the target.

Environmental risk assessments rely heavily on numerical trigger concentrations or guidelines because exposure of targets to contamination is difficult to quantify directly. Quantification of risk is therefore mainly undertaken for general scenarios in order to derive trigger levels. These are derived for various contaminants for particular targets and routes of exposure. An example of a sensitive target would be users of a domestic back garden, where routes of exposure might be skin contact, dust inhalation, direct ingestion and indirect ingestion via cultivation and consumption of fruit and vegetables.

In March 2002, the first parts of the new CLEA risk assessment guidance were released by DEFRA/Environment Agency.

The risk assessment approach is an extension of the 'fit for use' concept whereby land is cleaned up to a standard fit for the proposed use, that is, so all remaining risks are acceptable. However, as well as being 'fit for use', the environmental risk assessment approach also addresses the soil and water environment so that these are also safeguarded where necessary. For example if a site was contaminated with heavy metals and the development comprised the proposed construction of hard standings and buildings only, the fit-for-use approach might require no remediation for the site. However, consideration of the wider environment needs to address whether groundwater is being contaminated, and if so whether remediation is required for this reason.

The following classification presented by CIRIA has been used in the assessment of risk:

Estimation of risk from consideration of magnitude, consequences and probabilities				
Probability	Consequences			
	Severe	Moderate	Mild	Minor
High	Very high	High	Moderate	Moderate / Low
Medium	High	Moderate	Moderate / Low	Low
Low	Moderate	Moderate / Low	Low	Very Low
Unlikely	Moderate / Low	Low	Very Low	Very Low

Reference: Contaminated Land Risk Management; A Guide to Good Practice, CIRIA C552:2001.

CIRIA C665 Situation A Ground Gas Conceptual Model

The risk table contained in C665 is basically a modified risk assessment from CIRIA 152 1995, by which a conceptual model and semi-quantitative risk assessment can be made.

APPENDIX J

(i) Notes on Ground Gas

Ground Gas

The Building Regulations and BRE Report 212 state that precautions are not mandatory against carbon dioxide unless 5.0% volume is exceeded. These documents do not give a threshold level for methane, but Baker suggests that this level is 0.1% volume. For methane up to 1.0% volume, and carbon dioxide above 5.0% volume, the Building Regulations and BRE Report state that passive measures may be adopted. Above 1.0% methane further specific guidance must be sought.

CIRIA Report 149 gives further guidance on the appropriate precautions for various gas regimes, called characteristic situations in this report. In the DETR Guide for Design by Ove Arup, various types of passive measures are assessed for performance with different gas regimes. The assessments used computational fluid dynamic (CFD) modelling.

A gas regime is essentially defined by two parameters:

- i) The concentration of the gas (e.g. % methane)
- ii) The emission rate of the gas from the ground.

The fact that two parameters are used is problematic if the site is to be classified on the basis of Table 28 in CIRIA Report 149. This is because high gas concentrations are often encountered which fall into an onerous gas regime; whereas the low flow rates which are also frequently encountered fall into less onerous gas regimes.

In order to use the Guide for Design to decide if passive measures are suitable, it is necessary to combine the gas concentration and the emission rate.

Three recent publications are used for ground gas risk assessment:

- CIRIA C665 (2007) for high rise residential / flats,
- 'Guidance on Evaluation of Development Proposals on Sites Where Methane and Carbon Dioxide are Present' Report Edition No.04 March 2007 NHBC – designed for use with low rise residential properties,
- BS8485:2015 (June 2015) 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings'

These documents improve upon the approach used in previous CIRIA and Wilson /Card Papers, by placing emphasis on gas flow rates, but still retain some reliance on the gas concentrations themselves.

CIRIA C665 Situation A Ground Gas Conceptual Model

The risk table contained in C665 is basically a modified risk assessment from CIRIA 152 1995, by which a conceptual model and semi-quantitative risk assessment can be made.

High Rise / Flats (CIRIA 665 Table 8.5)

Characteristic Situation (CIRIA Report 149)	Risk Classification	Gas Screening Value (CH ₄ or CO ₂) (l/hr) ¹	Additional Factors	Typical Source of Generation
1	Very Low Risk	<0.07	Typically methane ≤1%v/v and/or carbon dioxide ≤5%v/v. Otherwise consider increase to Situation 2	Natural soils with low Organic content. "Typical" Made Ground
2	Low risk	<0.7	Borehole flow rate not to exceed 70l/hr. Otherwise consider increase to Situation 3	Natural soil, high peat/organic content. "Typical" Made Ground
3	Moderate Risk	<3.5		Old landfill, inert waste, Mine working flooded
4	Moderate to High Risk	<15	Quantitative risk assessment required to evaluate scope of protective measures	Mine working susceptible to flooding, completed landfill (WMP 26B criteria)
5	High Risk	<70		Mine working unflooded inactive with shallow workings near surface
6	Very High Risk	>70		Recent landfill site

Notes:

1. Gas screening value: litres of gas/hour is calculated by multiplying the gas concentration (%) by the measured borehole flow rate (l/hr);
2. Site characterisation should be based on gas monitoring of concentrations and borehole flow rates for the minimum periods as defined within CIRIA Report 665;
3. Source of gas and generation potential/performance must be identified;
4. Soil gas investigation to be in accordance with guidance contained within CIRIA Report 665;
5. If there is no detectable flow, use the limit of detection of the instrument;
6. The boundaries between the Partners in Technology classifications do not fit exactly with the boundaries for the above classification.

Typical scope of protective measures (extract from CIRIA Report 665 Table 8.6)

Characteristic Situation (from Table 8.5)	Number of Levels of Protection	Typical Scope of Protective Measures for Residential Building (not low-rise traditional housing) ¹
1	None	No special precautions
2	2	a) Reinforced concrete cast in situ floor slab (suspended, non-suspended or raft) with at least 1200g DPM and under-floor venting b) Beam and block or pre-cast concrete and 2000 g DPM/reinforced gas membrane and under-floor venting. All joints and penetrations sealed.
3	2	All types of floor slab as above. All joints and penetrations sealed. Proprietary gas resistant membrane and passively ventilated or positively pressurised under-floor sub-space.
4	3	All types of floor slab as above. All joints and penetrations sealed. Proprietary gas resistant membrane and passively ventilated under-floor subspace or positively pressurised under-floor sub-space, over-site capping or blinding and in ground venting layer
5	4	Reinforced concrete cast in situ floor slab (suspended, non-suspended or raft). All joints and penetrations sealed. Proprietary gas resistant membrane and ventilated or positively pressurised under-floor sub-space, over-site capping and in ground venting layer and in ground venting wells or barriers.
6	5	Not suitable unless gas regime is reduced first and quantitative risk assessment carried out to assess design of protection measures in conjunction with foundation design.

Notes:

1. Not suitable for use with low rise traditional housing. (Use the NHBC document instead);
2. Typical scope of protective measures may be rationalised for specific developments on the basis of quantitative risk assessments;
3. Note the type of protection is given for illustration purposes only. Information on the detailing and construction of passive protection measures is given in BR414 (Johnson, 2001). Individual site specific designs should provide the same number of separate protective methods for any given characteristic situation. See CIRIA Report 49;
4. In all cases there should be minimum penetration of ground slabs by services and minimum number of confined spaces such as cupboards above the ground slab. Any confined spaces should be ventilated;
5. Foundation design must minimise differential settlement particularly between structural elements and ground-bearing slabs;
6. Commercial buildings with basement car parks, provided with ventilation in accordance with the Building Regulations, may not require gas protection for Characteristic Situations 3 and 4;
7. Floor slabs should provide an acceptable formation on which to lay the gas membrane. If a block beam floor is used it should be well detailed so it has no voids in it that membranes have to span, and all holes for service penetrations should be filled. The minimum density of the blocks should be 600kg/m³ and the top surface should have a 4:1 ratio sand to cement grout brushed into all joints before placing any membrane (this is also good practice to stabilise the floor and should be carried out regardless of the need for ground gas membranes);
8. The ground gas-resistant membrane can also act as the damp-proof membrane;
9. Based on Building Regulations Approved Document C (Office of the Deputy Prime Minister, 2004a), which states that "a membrane below the concrete could be formed with a sheet of polyethylene, which should be at least 300µ thick (1200 gauge)". Please note the alteration from 300mm (as stated in the Approved Document C) to 300µ, as 300mm is a typographical error that has been recognised and corrected for within this report and CIRIA Report 665.

Low Rise Residential (NHBC)

Table 14.1: Gas Risk Assessment - Traffic Lights with Typical Maximum Concentrations and Gas Screening Values

Classification	Methane ¹		Carbon Dioxide ¹	
	Typical Maximum Concentration ³ (%v/v)	Gas Screening Value ^{2,4} (l/hr)	Typical Maximum Concentration ³ (%v/v)	Gas Screening Value ^{2,4} (l/hr)
Green	1	0.13	5	0.78
Amber 1	5	0.63	10	1.60
Amber 2	20	1.60	30	3.10
Red				

Notes:

1. The worst-case ground gas regime identified on the site, either methane or carbon dioxide, at the worst case temporal conditions that the site may be expected to encounter will be the decider as to what Traffic Light is allocated;
2. Borehole Gas Volume Flow Rate, in litres per hour as defined in Wilson and Card (1999), is the borehole flow rate multiplied by the concentration in the air stream of the particular gas being considered;
3. The Typical Maximum Concentrations can be exceeded in certain circumstances should the Conceptual Site Model indicate it is safe to do so;
4. The Gas Screening Value thresholds should not generally be exceeded without the completion of a detailed ground gas risk assessment taking into account site-specific conditions.

Table 14.2: Ground Gas Protection Measures Required for the Traffic Lights

Traffic Light	Ground Gas Protection Measures Required
Green	Ground gas protection measures are not required. (note based on standard NHBC house detail with 150mm void space under suspended floor)
Amber 1	Low-level ground gas protection measures are required, using a membrane and ventilated sub-floor void that creates a permeability contrast to limit the ingress of gas into buildings. Gas protection measures are to be installed as prescribed in BRE 414. Ventilation of the sub-floor void should be designed to provide a minimum of one complete volume change per 24 hours.
Amber 2	High-level ground gas protection measures are required, creating a permeability contrast to prevent ingress of gas into buildings. Gas protection measures are to be installed as prescribed in BRE 414. Membranes used should always be fitted by a specialist contractor and should be fully certified (see Appendix G). As with Amber 1, ventilation of the sub-floor void should be designed to provide a minimum of one complete volume change per 24 hours.
Red	Standard residential housing is not normally acceptable without further Ground Gas Risk Assessment and/or possible remedial mitigation measures to reduce/remove the source of the ground gases. In certain circumstances, active protection methods could be applied, but only when there is a legal agreement assuring the management and maintenance of the system for the life of the property.

BS8485:2015 Code of Practice for design of protective measures for CH₄ and CO₂ ground gases for new buildings

Table 3 page 21: Building Types

	Type A	Type B	Type C	Type D
Ownership	Private	Private or commercial/public, possible multiple	Commercial/Public	Commercial/Industrial
Control (change of use, structural alterations, ventilation)	None	Some but not all	Full	Full
Room Sizes	Small	Small/medium	Small to large	large industrial/retail park style

Type A) Private ownership with no building management controls on alterations to the internal structure, the use of rooms, the ventilation of the rooms or the structural fabric of the building. Some small rooms present. Probably conventional building construction (rather than civil engineering). Examples include private housing and some retail premises.

Type B) Private or commercial property with central building management control of any alterations to the buildings or its uses but limited or no central building management control of the maintenance of the building, including gas protection measures. Multiple occupancy. Small to medium size rooms with passive ventilation of rooms and other internal spaces throughout the ground floor and basement areas. May be conventional building or civil engineering construction. Examples include managed apartments, multiple occupancy offices, some retail premises and parts of public buildings (such as schools, hospitals and leisure centres) and parts of hotels.

Type C) Commercial building with central building management control of any alterations to the building or its uses and central building management control of the maintenance of the building, including the gas protection measures. Small to large rooms with active ventilation or good passive ventilation of all rooms and other internal spaces throughout ground floor and basement areas. Probably civil engineering construction. Examples include offices, some retail premises and parts of some public buildings (such as schools, hospitals, leisure centres and parts of hotels).

Type D) Industrial style building having large volume internal spaces that are well ventilated. Corporate ownership with building management controls on alterations to the ground floor and basement of the building and on maintenance of ground gas protective measures. Probably civil engineering construction. Examples are retail park sales buildings, factory shop floors, warehouses. (Small rooms within these style buildings should be separately categorised as Type B or Type C).

Table 4 page 22: Gas Protection Score by CS and Type of Building

Characteristic Gas Situation, CS	NHBC Traffic Light	Required Gas Protection High Risk			
		High Risk		Medium Risk	Low Risk
		Type A Building	Type B Building	Type C Building	Type D Building
1	Green	0	0	0	0
2	Amber 1	3.5	3.5	2.5	1.5
3	Amber 2	4.5	4	3	2.5
4	Red	6.5 ^{A)}	5.5 ^{A)}	4.5	3.5
5		- ^{B)}	6.5 ^{A)}	5.5	4.5
6		- ^{B)}	- ^{B)}	7.5	6.5

NOTE Traffic light indications are taken from NHBC Report No: 10627-R01 (04) [3] and are mainly applicable to low-rise residential housing. These are for comparative purposes but the boundaries between the traffic light indications and CS values do not coincide.

- A) Residential buildings should not be built on CS4 or higher sites unless the type of construction or site circumstances allow additional levels of protection to be incorporated e.g. high performance ventilation or pathway intervention measures, and an associated sustainable system of management of maintenance of the gas control system e.g. in institutional and/or fully service contractual situations.
- B) The gas hazard is too high for this empirical method to be used to define the gas protection measures.

Selection of Appropriate Measures Section 7.2 BS8485:2015

Structural Barriers - Table 5 Gas Protection Scores for Structural Barriers pg 23

Floor and Substructure Design (Annex A)	Score ^{A)}
Precast suspended segmental subfloor (i.e. beam and block)	0
Cast in situ ground bearing floor slab (with nominal mesh reinforcement)	0.5
Cast in situ monolithic reinforced ground bearing raft or reinforced cast in situ suspended floor slab with minimal penetrations	1 or 1.5 ^{B)}
Basement floor and walls conforming to BS 8210:2009 Grade 2 waterproofing ^{C)}	2
Basement floor and walls conforming to BS 8210:2009 Grade 3 waterproofing ^{C)}	2.5
A) the scores are conditional on breaches of floor slabs etc being effectively sealed	
B) to achieve the score of 1.5 the raft or suspended slab should be well reinforced to control cracking and have minimal penetrations in cast in (A2.2.2)	
C) the score is conditional on the waterproofing not being used on the use of geosynthetic clay liner waterproofing product (see C3 Note 4)	

Ventilation Measures

Ventilation protection measures should be one of five types and points can only be scored for one of these measures;

- Pressure relief pathway only (no effective dispersal layer)
- Passive dispersal layer
- Active dispersal layer (fan suction)
- Active positive pressurisation (air blanket)
- Ventilated basement substructure present.

Note 1 - for Type A buildings active ventilation measures are inappropriate

Note 2 - There are a wide range of different media used to form gas dispersal layer for both passive and active systems, and are more likely to be developed

Note 3 - The types of media include expanded polystyrene void formers, geocomposite void formers, no (low) fines gravel and drains formed by perforated pipes or geocomposites.

Note 4 - The continuity of the media beneath the floor slab might be interrupted by ground beams, pile caps, edge beams and other intrusions extending below the level of the media blanket, which might significantly reduce the effectiveness of the dispersal layer.

Note 5 - The effective volume of the gas dispersal layer might be reduced by its placement on a soft layer (for example sand binding) which reduces its gas permeability and dispersal effectiveness. The effective volume would also be reduced or eliminated if the media became flooded with groundwater or clay heave.

Note 6 - The performance of passive systems can be significantly affected by the number and type of side ventilation terminals. Common side terminals are airbricks, low level vents and high level vent stacks. Guidance on side ventilation is given in Annex B

Table 6 Gas Protection Measures for Ventilation Protection Measures

Protection Element/System	Score	Comments
a) Pressure relief pathway (usually formed of low fines gravel or with a thin geocomposite blanket or strips terminating in a gravel trench external to the building).	0.5	Whenever possible a pressure relief pathway (as a min) should be installed in all gas protection measures systems. If the layer has a low perm and/or is not terminated in a venting trench (or similar) then the score is zero.
b) Passive sub floor dispersal layer: Very good performance Good performance Media used to provide dispersal layer are *Clear void *Polystyrene void former blanket *Geocomposite void former blanket *No fines gravel layer with gas drains *No fines gravel layer	2.5 1.5	Performance criteria for methane and carbon dioxide are shown in Fig B.6 and B.7 respectively. The ventilation effectiveness of different media depends on the number of different factors including the transmissivity of the medium, the width of the building, the side ventilation spacing and type and thickness of the layer. The selected score should be assigned taking into account the recommendations in Annex B. Passive ventilation should be designed to meet at least good performance, see Annex B.
c) Active dispersal layer, usually comprising fans with active abstraction (suction) from a subfloor dilution layer, with roof level vents. The dilution layer may comprise a clear void or be formed of geocomposite or polystyrene void formers.	1.5-2.5	This system relies on continued serviceability of the pumps, therefore alarm and response systems should be in place. There should be a robust management systems in place to ensure the continued maintenance of the system, including pumps and vents. Active ventilation should always be designed for good performance as described in Annex B.
d) Active pressurisation by the creation of a blanket of external fresh air beneath the building floor slab by pumps supplying air to the points across the central footprint of the building into a permeable layer, usually formed of a thin geocomposite blanket.	1.5-2.5	This system relies on continued operation of the pumps, therefore alarm and response systems in place. The score assigned should be based on the coverage of the building footprint and the redundancy of the system. Active ventilation should always be designed to meet at least good performance.

Gas Membranes

Gas resistant membranes should be;

- Sufficiently impervious to methane (CH₄) and carbon dioxide (CO₂)
- Capable after installation of providing a complete barrier to the entry of the relevant gas
- Sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions
- Sufficiently strong to withstand in service stresses (e.g. due to ground settlement if placed below floor slab)
- Sufficiently strong to withstand the installation process and following construction activities until covered (e.g. penetration from steel fibres in fibre reinforced concrete, penetration of reinforcement ties, tearing due to working above it and dropping of tools)
- Chemically resistant to degradation by other contaminants that might be present

Note 1 – a methane gas transmission rate of <40ml/day/m²atm(avg) for sheets and joints (BSISO15105-1) usually considered sufficient

Note 2 – Guidance on the relevant properties of a), c) and e) is provided in CIRIA C748 [10]

Note 3 – Advice on membrane selection is in Annex C.

Note 4 – The installation and subsequent protection of the membrane are key factors in its performance. A poorly installed membrane cannot perform, however a well detailed and irrespective of the performance of the material. Historically ref was made to verification and integrity testing without any referenced documents against which to judge. The verification process is now described in CIRIA C735 [N1] and as such confidence in the installation can be measured. The process removes the uncertainty of unqualified or inexperienced installation operatives by requiring a *verification plan* to be drawn up prior to installation, with frequency and type of verification being dependent on the qualifications of the operatives, site risk and design criteria. (see 8.3.2 pg 30)

Note 5 – Current guidance on verification recommendations takes in account the risk of the overall design and confidence of installation and sets a frequency and level of verification appropriate.

Protection Element/System	Score	Comments
Gas resistant membrane meeting all of the following criteria:	2	The performance of the membranes is heavily dependent on the quality and design of the installation, resistance to damage after installation and integrity of joints. For example a minimum 0.4mm thickness (equivalent 370g/m ² for polyethelene) reinforced membrane (virgin polymer) meets performance in Table 7 (see C3). If a membrane is installed that does not meet all the criteria in Column 1 the score is Zero
* sufficiently impervious to the gases with a methane gas transmission rate <40ml/day/m ² atm(avg) for sheet and joints BS ISO15105-1		
*sufficiently durable to remain servicable for the anticipated life of the building and duration of gas emissions		
*sufficiently strong to withstand in-service stresses (eg settlement if placed below floor slab)		
*e) Sufficiently strong to withstand the installation process and following construction activities until covered (e.g. penetration from steel fibres in fibre reinforced concrete, penetration of reinforcement ties, tearing due to working above it and dropping of tools		
*capable after installation of providing a complete barrier to the entry of relevant gases		
*verified in accordance with CIRIA C735 [N1]		

In-Ground Pathway Intervention - A sites in-ground pathways from offsite sources should be investigated for migratory gases – Note 1 methods of pathway intervention include simple vertical membrane installations, vent trenches, rows of stone columns, activated trenches and proprietary systems. Note 2 – for residential dwellings, management and maintenance is only acceptable where pathway intervention measures (e.g. venting trenches) are beyond the extent of the buildings, on or close to the boundary of the property in a position where access can be guaranteed.

Detailed Design – Once the design measures have been selected in accordance with Section 7.2, these should be developed into a detailed design supported by detailed drawings and specifications. The design should be described in the design report Section 8.3.

APPENDIX K

(i) Off-site Disposal of Surplus Soil Guidance Notes

The disposal of waste (including surplus soils and contaminated soils) to landfill sites is governed by the *Landfill (England & Wales) Regulations 2002*, the *Hazardous Waste Technical Guidance document WM2 (2003)* and associated legislation.

One of the aims of the above legislation is to encourage waste producers (including developers disposing of surplus soils etc) to reduce their waste (and not just discard and disown it). This can be achieved by recycling or reusing the waste. In the case of contaminated sites where leaving contaminated material in-situ poses a risk to a potential receptor such as groundwater resources, further testing and assessment for such risk could reduce the quantities requiring disposal. If there is still unacceptable risk from contaminated soil being left in place, then it may be possible to reduce the risk to an acceptable level (such that the material can be left in place) by in-situ or ex-situ clean-up of the soils.

Before waste can be disposed of, the producer of the waste must undertake a number of steps. '*Initial Waste Testing and Characterisation*' is firstly undertaken to determine whether the waste is non-hazardous or hazardous. The exceptions are that some wastes such as coal tars, 'tank bottom sludge's', etc are immediately classed as hazardous, regardless of any testing or threshold concentrations.

Any inert or hazardous waste destined for landfill must undergo '*Compliance Testing*' using the Waste Acceptance Criteria (WAC). There are different inert and hazardous WAC limits relating to landfill sites that are correspondingly licensed to accept inert or hazardous waste.

If the '*Initial Waste Testing and Characterisation*' shows a waste to be hazardous, then it is a requirement that the material be tested against the WAC-hazardous suite of tests. If it passes the WAC-hazardous testing, then it can be taken to a hazardous waste landfill site. If the material fails the WAC-hazardous testing, then the material must be treated before undergoing re-characterisation, further WAC-hazardous testing and then potential disposal at a hazardous waste disposal site.

If the '*Initial Waste Testing and Characterisation*' shows a waste to be non-hazardous, then it can be taken to a non-hazardous waste landfill site, without further testing. The producer may however decide to undertake WAC-inert testing, in an attempt to reclassify the waste as inert, in which case the waste could then go to an inert landfill site.

The volumes of soils associated with potential hotspots on a site (be they hazardous or non-hazardous) which might require off-site disposal, could potentially be reduced by further on-site sampling and subsequent testing.

With regard to the *Compliance Testing*, it should be noted that some landfill sites are permitted to increase the standard WAC-hazardous/inert limit concentrations, such that they might accept waste that would normally fail such limits.

We would recommend that the contamination testing results (including the history of the site) be presented to the proposed landfills, to determine if they will accept waste generated at the site and what classification they would impose.

APPENDIX L

(i) Validation Report Guidance Notes

Unforeseen Hotspots of Contamination

Given the existence of made ground on the site it would be prudent to maintain vigilance during site clearance and construction, in case any further areas of suspected contamination are encountered.

If areas are found then a suitably qualified person should undertake appropriate sampling, testing and further risk assessment.

Any hotspots encountered during site clearance, not previously encountered in the ground investigation, are to be removed to a suitably licensed landfill site.

A validation report (see below) will be produced on completion of these works. This report will serve to confirm that the works were undertaken in accordance with the relevant legislation, the method statement, specification and planning conditions.

Validation Report Recommendations

It is suggested that the following records will be kept on site to provide a basis for the validation report:

- Daily record sheets of the remediation works to include a summary of the day's activities
- Weather conditions
- Plant, personnel and visitors to the remediation site
- Aspects relating to Health & Safety, environmental control or non-compliance with the specification or the Method Statements.
- All in situ and laboratory testing results.

All requirements of the remediation specification should be complied with; on completion of the remediation a validation report should be provided. This report will comprise the relevant site records and act as certification that the remedial and ground preparation works have been carried out in accordance with the specification.

The validation report will include the following:

- A description of the works undertaken.
- Records of any remediation works, including daily diary sheets.
- Progress photographs.
- Any chemical and geotechnical validation test results.
- As built surveys, including base excavations and top and bottom of capping layer.
- A statement that the works have been undertaken in accordance with the agreed specification

APPENDIX M

(i) Notes on Limitations

This report does not consider ecological impacts (e.g. bats) or botanical risks (e.g. Japanese knotweed). It is recommended that these are considered as part of the assessment of development constraints for the site.

The assessment and judgements given in this report are directed by both the finite data on which they are based and the proposed works to which they are addressed. The data essentially comprised a study of available documented information from various sources (including Client Furnished reports) together with discussions with relevant authorities and other interested parties. There may also be circumstances at the site that are not documented. The information reviewed is not exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. If additional information becomes available which might impact our environmental conclusions, we request the opportunity to review the information, reassess the potential concerns and modify our opinion if warranted.

It should be noted that any risks identified in this report are perceived risks based on the available information. Actual risks can only be assessed following a physical investigation of the site.

The site investigation has been carried out to provide information concerning the type and degree of contamination, and ground and groundwater conditions to allow a reasonable risk assessment to be made. Betts Geo Environmental Ltd undertake to exercise all reasonable skill, care and due diligence in the exercise of the investigation with respect to sampling techniques, sample storage and report interpretation.

The assessments and judgement given in this report are directed by both the finite data on which they are based and the proposed works to which they are addressed. Data acquisition is subject to the limitations of the methods of investigation used. Exploratory holes undertaken during fieldwork investigate small a small volume of ground in relation to the size of the site and as such can only provide an indication of site conditions. There may be conditions pertaining to the site and the proposed development i.e. localised "hotspots" of contamination, which have not been disclosed by the investigations.

The findings and opinions are relevant to the dates of our site works and should not be relied upon to represent conditions at substantially later dates. Conditions at the site will change over time due to natural variations and anthropogenic activities. Groundwater, surface water and soil gas conditions should be anticipated to change with diurnal, seasonal and meteorological variations.

The opinions expressed in this report regarding any contamination are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.

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