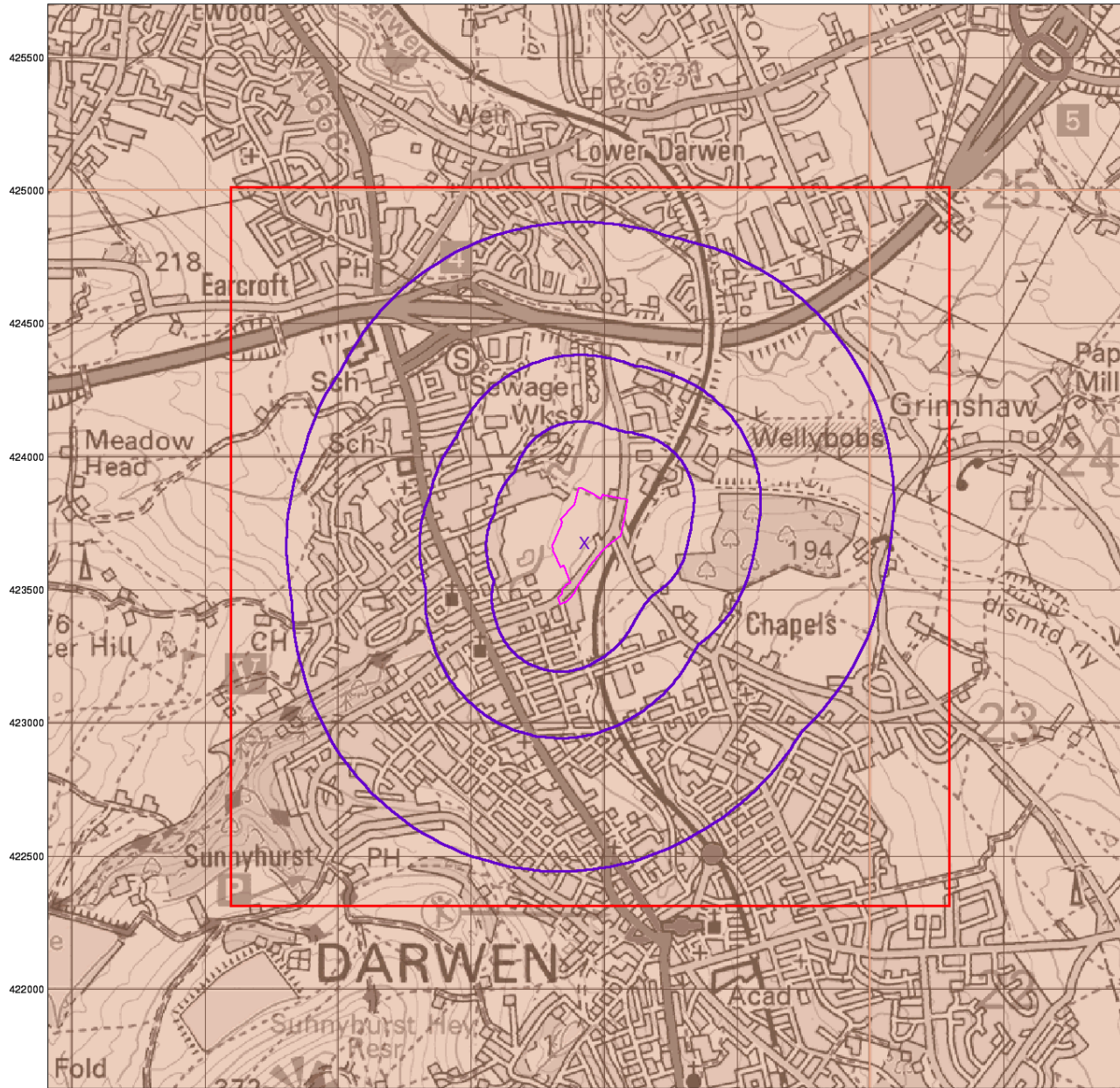


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Bedrock Aquifer Designation

General

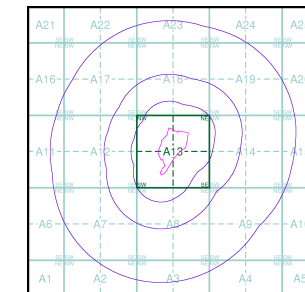
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 106427401_1_1
 Customer Ref: 40361
 National Grid Reference: 368930, 423680
 Slice: A
 Site Area (Ha): 6.17
 Search Buffer (m): 1000

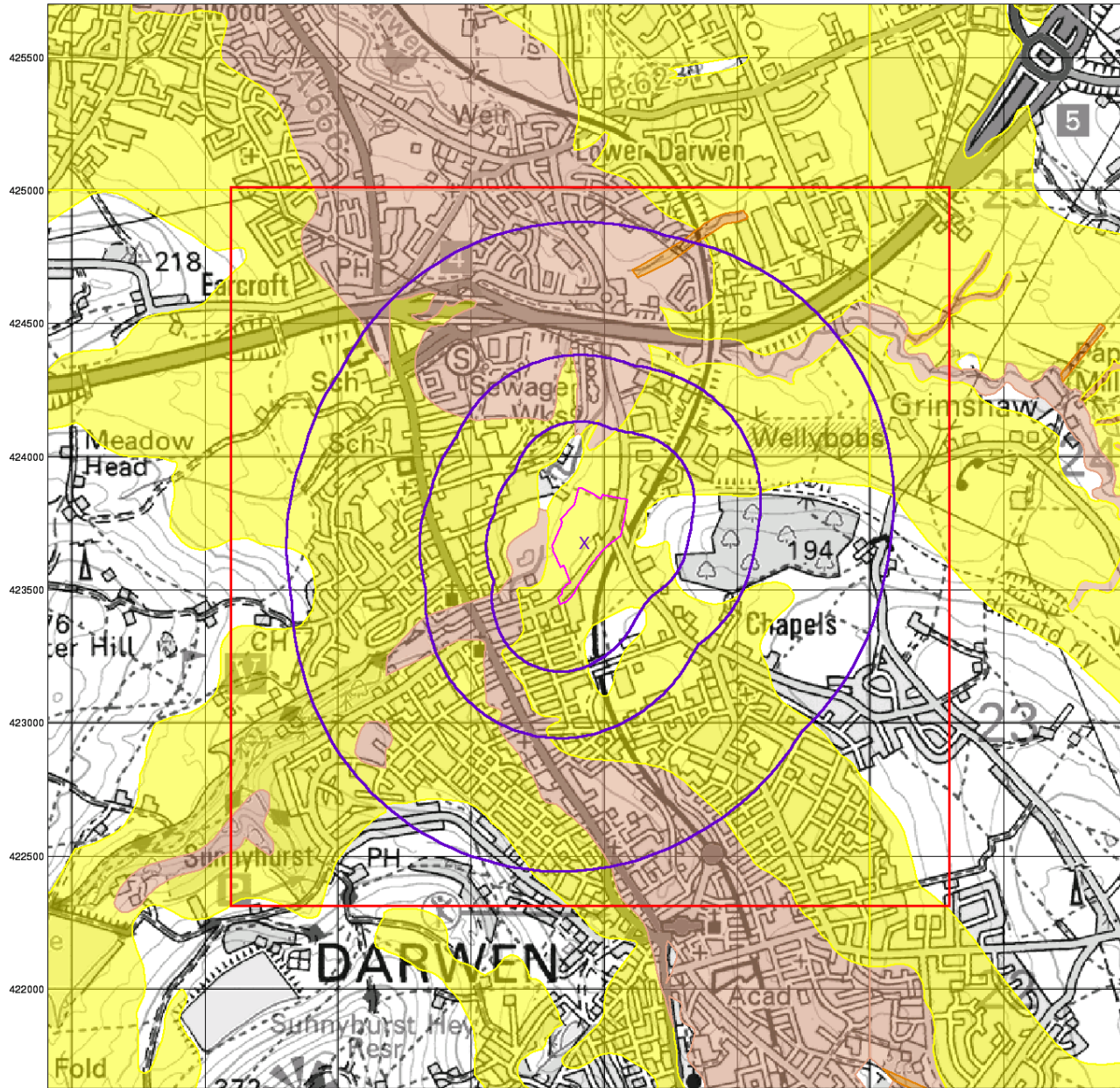
Site Details

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Superficial Aquifer Designation

General

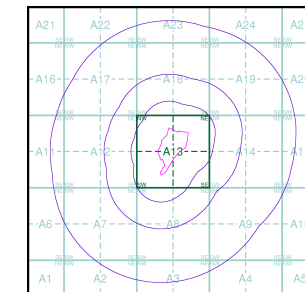
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 106427401_1_1
 Customer Ref: 40361
 National Grid Reference: 368930, 423680
 Slice: A
 Site Area (Ha): 6.17
 Search Buffer (m): 1000

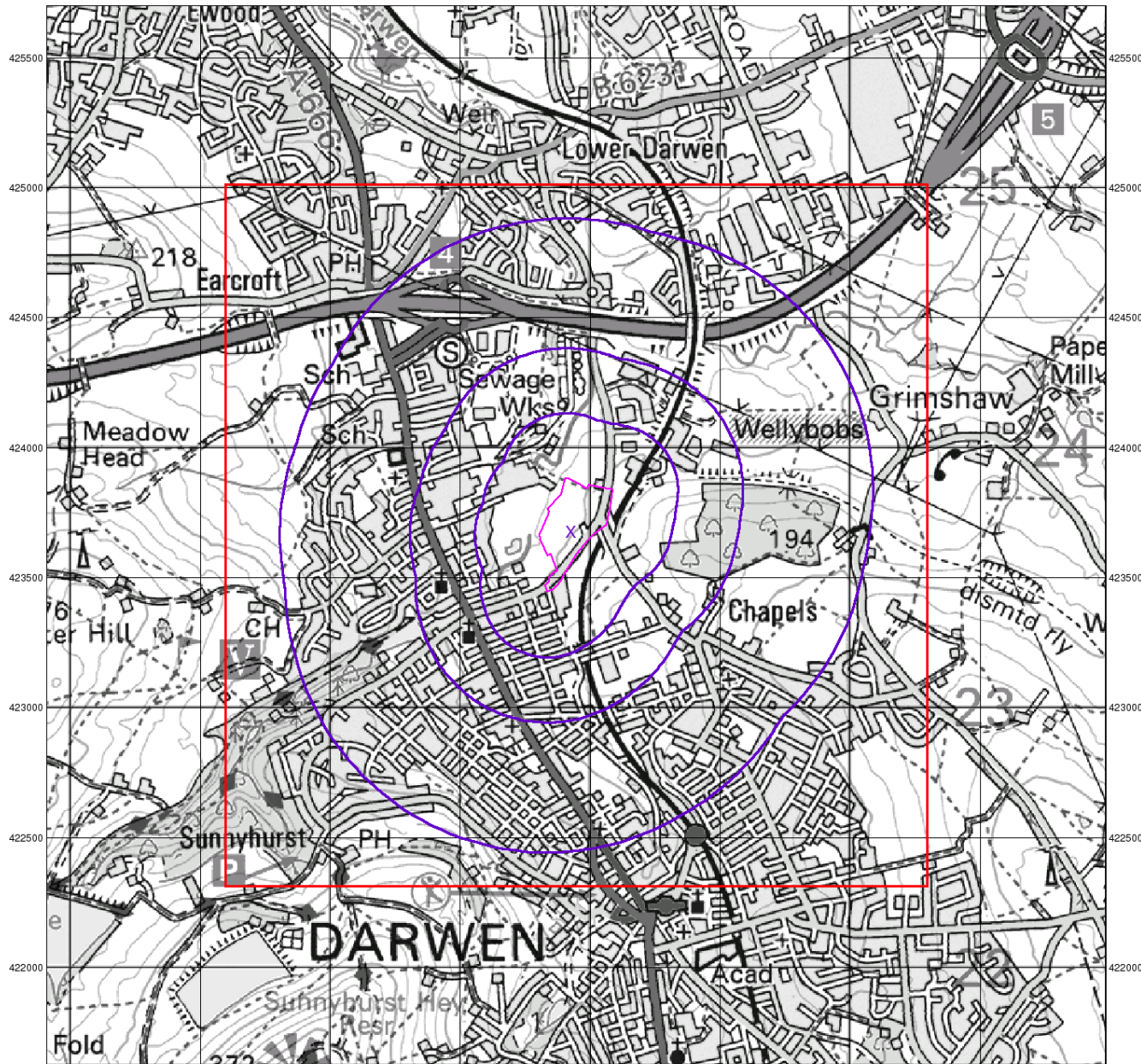
Site Details

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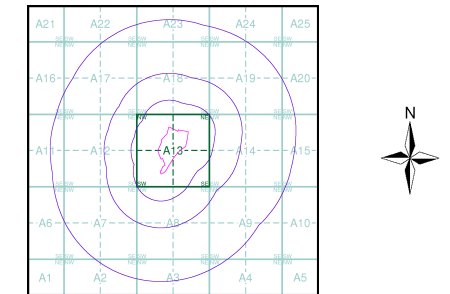
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Source Protection Zones

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID

- Agency and Hydrological**
- Inner zone (Zone 1)
 - Inner zone - subsurface activity only (Zone 1c)
 - Outer zone (Zone 2)
 - Outer zone - subsurface activity only (Zone 2c)
 - Total catchment (Zone 3)
 - Total catchment - subsurface activity only (Zone 3c)
 - Special interest (Zone 4)
 - Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

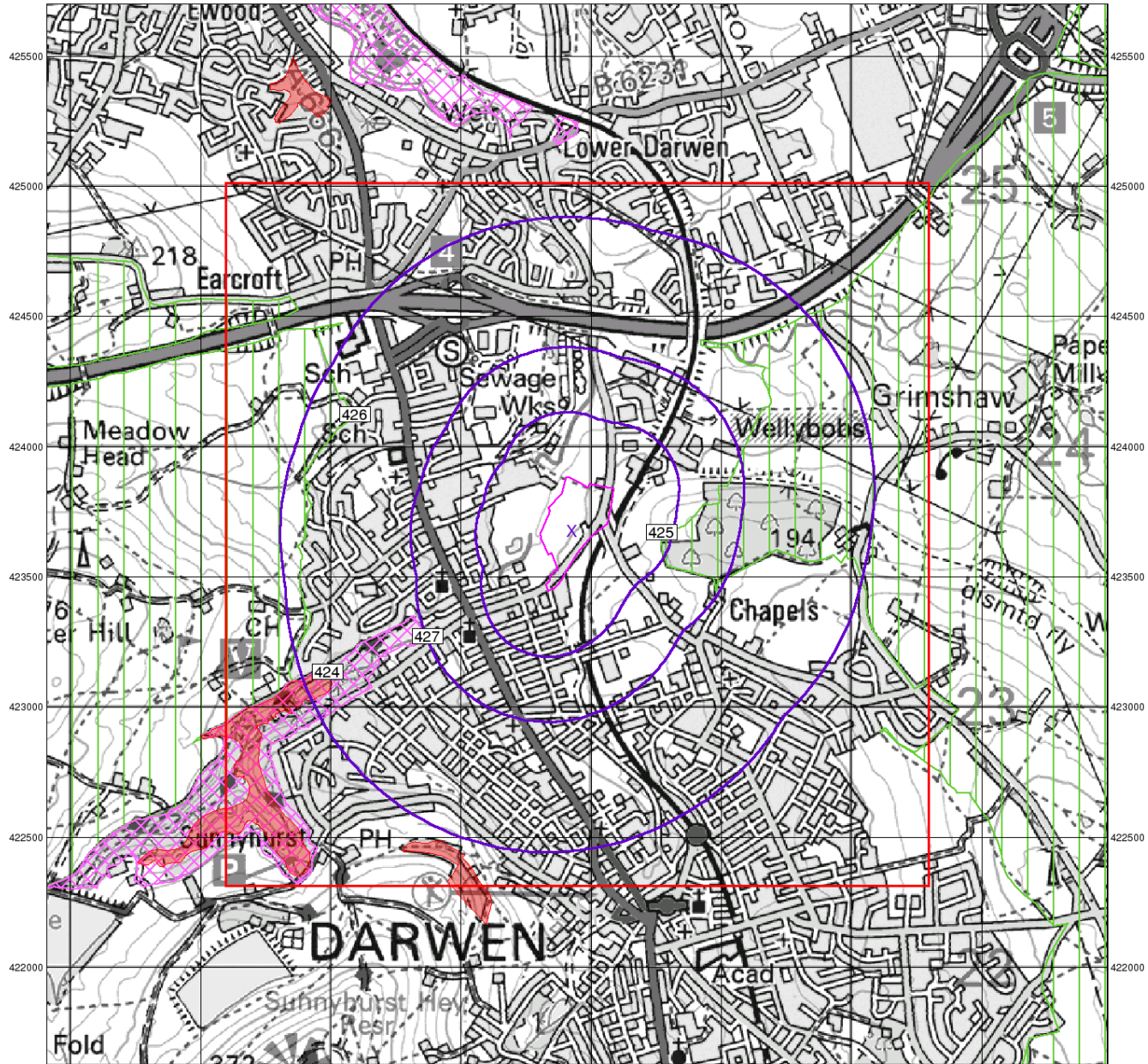
Order Number: 106427401_1_1
 Customer Ref: 40361
 National Grid Reference: 368930, 423680
 Slice: A
 Site Area (Ha): 6.17
 Search Buffer (m): 1000

Site Details
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Sensitive Land Uses

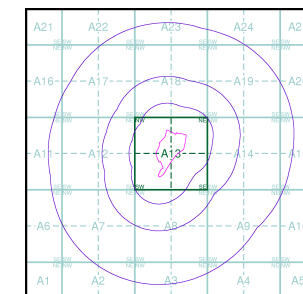
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 106427401_1_1
 Customer Ref: 40361
 National Grid Reference: 368930, 423680
 Slice: A
 Site Area (Ha): 6.17
 Search Buffer (m): 1000

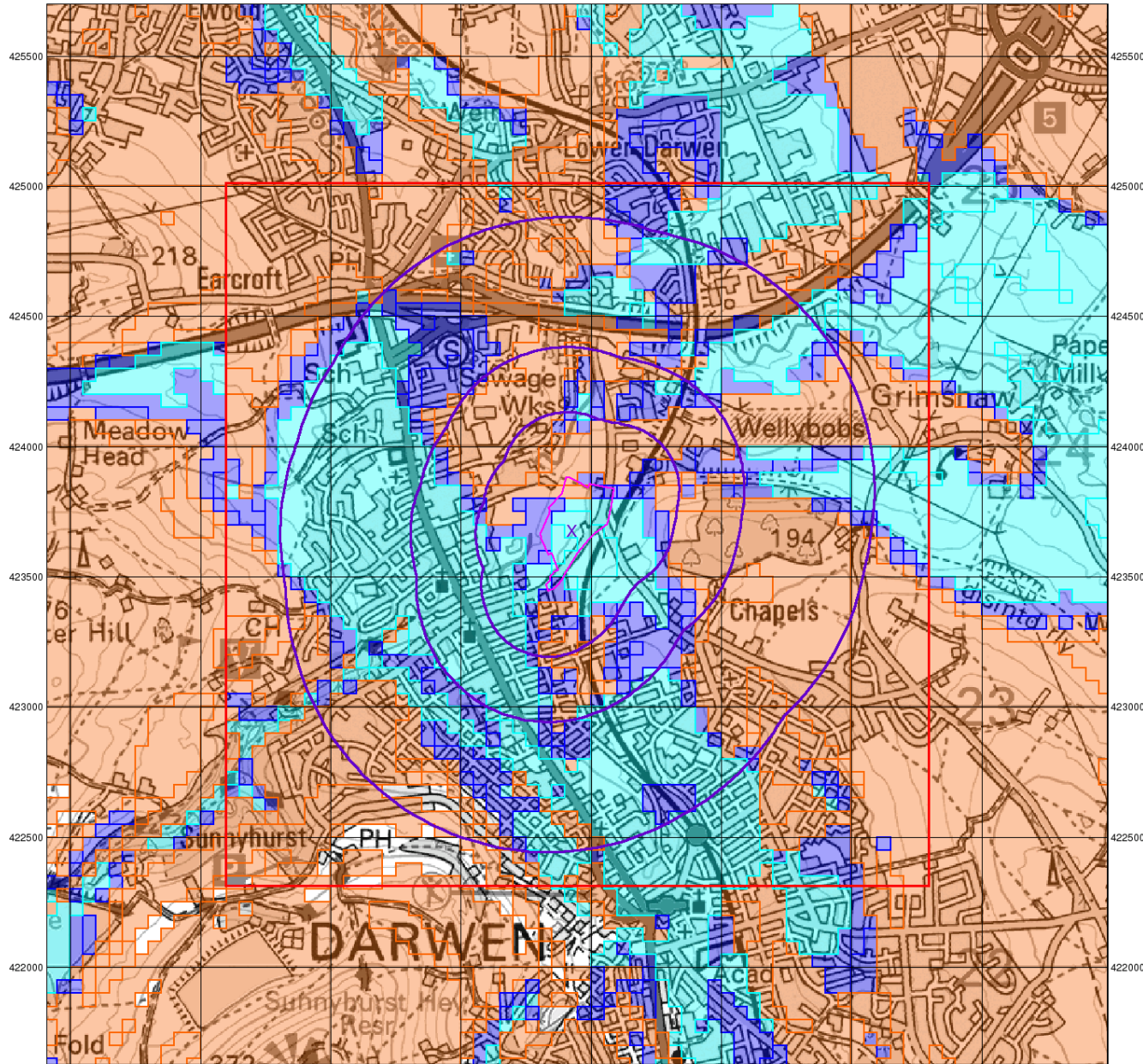
Site Details

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BGS Flood GFS Data

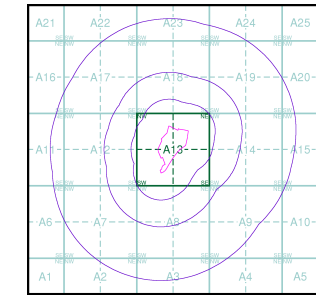
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 106427401_1_1
 Customer Ref: 40361
 National Grid Reference: 368930, 423680
 Slice: A
 Site Area (Ha): 6.17
 Search Buffer (m): 1000

Site Details

12 Hollins Grove Street, DARWEN, Lancashire, BB3 1HG

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The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

12 HOLLINS GROVE STREET
DARWEN
LANCASHIRE

Date of enquiry: 04 November 2016
Date enquiry received: 04 November 2016
Issue date: 04 November 2016

Our reference: 51001294812001
Your reference: 103623534_2|



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

12 HOLLINS GROVE STREET, DARWEN,
LANCASHIRE


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www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	No
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is not within a surface area that could be affected by past underground mining.

However the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, 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.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

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.

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. 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.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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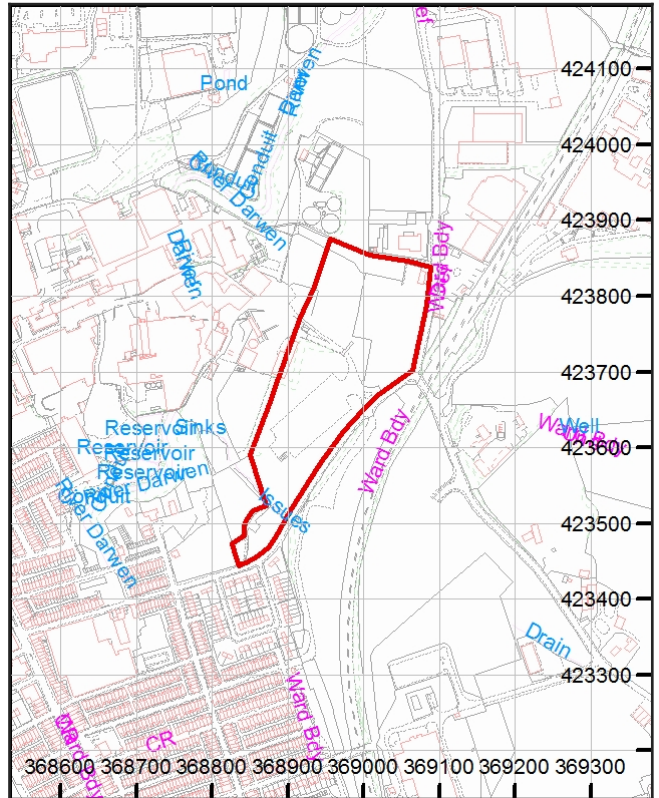
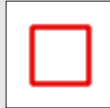
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown




How to contact us

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Appendix 3

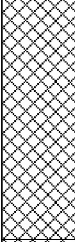
Trial Pit Logs, TP1 to TP27

Cable Percussive Boreholes Logs, CP1 to CP5

Window Sampling Holes, WS1 to WS6

Dynamic Probe Results for WS1 and WS2

Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.20m	Logged By MM

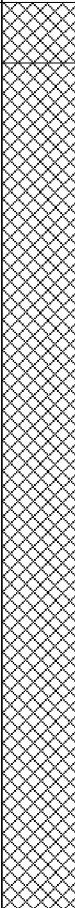
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.80			MADE GROUND: Dark grey blackish fine to coarse clayey gravelly sand. Gravel is fine to coarse subangular of brick, sandstone, mudstone, metal, wood. Whole bricks.
1.00	D					MADE GROUND: Firm brown grey sandy gravelly clay. Gravel is fine to coarse subangular of brick, sandstone, mudstone, metal, wood, concrete. Whole bricks and boulders of concrete. Pockets of dark grey blackish sand.
			3.20			Trialpit Complete at 3.20 m

Remarks: Significant side collapses noted from 1m bgl.

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.00m	Logged By MM

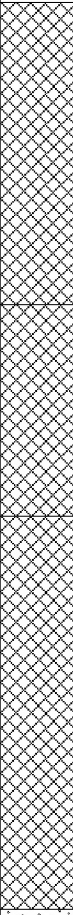

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.10	D		0.20			MADE GROUND: Blackish dark grey fine to coarse compacted sandy gravel of mudstone, sandstone, brick and other lithologies. Geogrid at 0.2m.	1
						MADE GROUND: Brown and dark brown fine to coarse sand and fine to coarse gravel of limestone, brick, mudstone, concrete. Occasional wood fragments. Cobbles and boulders of concrete and whole bricks.	
1.50	D		3.00				2
						Trialpit Complete at 3.00 m	4

Remarks: Significant side collapses noted from 0.8m bgl.

Groundwater: None Encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: - Depth 3.20m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM

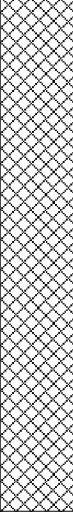

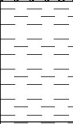
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	D					MADE GROUND: Blackish dark grey fine to coarse clayey sand and gravel of sandstone, mudstone, bricks.
1.00						MADE GROUND: Soft locally firm brown grey slightly gravelly clay. Fragments of brick locally present.
1.50 1.60 1.60	D IPP 1 IPP 2	50 50	1.70			MADE GROUND: Firm locally soft grey brown slightly gravelly clay. Gravel is fine to coarse subangular to subrounded of flint.
2.50	IPP 1	75				Firm dark grey brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of flint.
3.10 3.10	IPP 1 D	125	3.20			Trialpit Complete at 3.20 m

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.90m	Logged By MM



Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.20	D					MADE GROUND: Black and dark grey brown clayey gravelly ashy sand with pockets of dark grey clay. Gravel is fine to coarse subangular of brick, metal, concrete. Whole bricks and cobbles of concrete.	
1.00	D						
1.70			1.70			MADE GROUND: Firm dark grey sandy clay.	
2.00			2.00			MADE GROUND: Firm locally soft brown grey silty sandy clay.	
2.10 2.20 2.20	d IPP 1 IPP 2	75 100					
2.50	D		2.50			Firm locally stiff grey brown CLAY	
2.80 2.80	IPP 1 IPP 2	125 125	2.90				
						Trialpit Complete at 2.90 m	

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road		Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen			Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd			Depth 0.80m	Logged By MM



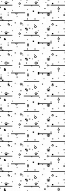
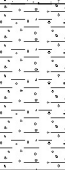
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.20			MADE GROUND: Turf over dark brown sandy gravelly clay. Gravel is fine to coarse of brick, concrete, mudstone, sandstone.
0.50	D					MADE GROUND: Brown fine to coarse clayey sand and subangular gravel of brick, concrete, metal. Boulders of concrete. Vertical steel pipe.
			0.80			Trialpit Complete at 0.80 m

Remarks: Pit full of water. Excavation stopped.

Groundwater: Fast water ingress from 0.6 m bgl.



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.50m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.30	D					MADE GROUND: Brown fine to coarse clayey sand and subangular gravel of brick, concrete, mudstone.	
0.95	D		0.90			MADE GROUND: Firm brown sandy gravelly clay. Intermittent layers of clayey sand. Gravel is fine to coarse subangular of mudstone, sandstone, flint.	1
1.40	D		1.30			Firm brown grey sandy gravelly CLAY. Gravel is fine to coarse subangular of mudstone, flint.	
1.50	IPP 1	100					
1.50	IPP 2	100					
1.50	IPP 3	125					
2.00	D		1.95			Firm locally stiff grey dark brown locally gravelly CLAY. Gravel is fine to coarse subangular of mudstone, flint.	2
2.10	IPP 1	125					
			2.50			Trialpit Complete at 2.50 m	3
							4

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: - Depth 2.90m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM



Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
						CONCRETE	
0.50	D		0.40			MADE GROUND: Blackish dark grey fine to coarse subangular clayey gravel of concrete, brick, metal, limestone. Hydrocarbon smell.	
1.00	D		0.80			MADE GROUND: Firm locally soft dark brown grey gravelly clay. Gravel is fine to coarse subangular of sandstone, mudstone, flint, brick, concrete and occasionally coal.	1
1.50	D		1.40			MADE GROUND: Firm brown grey clay.	
2.10	D		2.00			Firm dark brown grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular of sandstone.	2
2.50 2.50	IPP 1 IPP 2	100 100					
			2.90			Trialpit Complete at 2.90 m	3
							4

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 0.80m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.60	D		0.50			CONCRETE
			0.80			MADE GROUND: Brown fine to coarse clayey sand and subangular gravel of limestone, brick, concrete
Trialpit Complete at 0.80 m						

Remarks: Multiple large cables encountered at 0.8m. Excavation stopped.

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.90m	Logged By MM






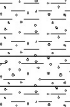
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30			CONCRETE	
0.50	D		0.40			MADE GROUND: Brown coarse subangular gravel of limestone	
						MADE GROUND: Soft brown sandy gravelly clay. Pockets of fine to coarse brown sand	
0.95	D		0.90			Brown locally reddish brown fine to coarse slightly clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone.	1
			1.70			Moderately strong to strong brown locally reddish brown SANDSTONE recovered as fine to coarse subangular gravel and cobbles.	
			1.90			Trialpit Complete at 1.90 m	2
							3
							4

Remarks: Solid at bottom.

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.90m	Logged By MM




Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50	D		0.35			Reinforced CONCRETE
1.25	D		1.20			MADEGROUND: Dark brown and brown fine to coarse subangular clayey sandy gravel of brick, flint, limestone. Occasional metal fragments.
2.35	D		2.30			MADE GROUND : Soft dark grey brown silty gravelly clay. Gravel is fine to coarse subrounded of flint.
2.65	D		2.30			Soft locally firm brown grey silty slightly gravelly CLAY. Gravel is fine to coarse subrounded of flint.
			2.50			Fine to coarse subrounded clayey GRAVEL of flint. (Assessed as loose)
			2.60			Firm grey brown silty gravelly CLAY. Gravel is fine to coarse subrounded of flint.
			2.90			Trialpit Complete at 2.90 m

Remarks:

Groundwater: groundwater ingress at 0.8m bgl.



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.20m	Logged By MM




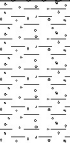
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.40			Reinforced CONCRETE
			1.80			MADE GROUND : Soft dark grey brown silty gravelly clay. Gravel is fine to coarse subangular to subrounded of brick, limestone, flint.
			3.20			Soft dark brown grey silty gravelly CLAY. Gravel is fine to coarse subrounded of flint.
						----- Trialpit Complete at 3.20 m

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.90m	Logged By MM


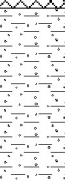
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.35			Reinforced CONCRETE	
0.60	D		0.80			MADE GROUND : Dark brown fine to coarse subangular sandy gravel of brick, sandstone, limestone. Steel bars. Concrete slab at southern end of pit.	
1.10	D					MADE GROUND : Firm locally soft grey brown clay. Lenses of dark grey blackish clay.	1
2.60	IPP 1	75	2.40			Firm brown and grey gravelly CLAY. Gravel is fine to coarse subangular to subrounded of mudstone, flint.	2
2.60	IPP 2	100					
2.60	IPP 3	100					
2.60	D		2.90				3
						Trialpit Complete at 2.90 m	4

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.80m	Logged By MM

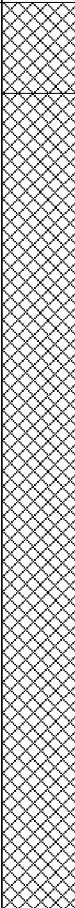
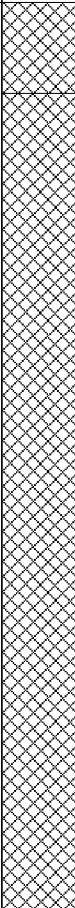
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.30	D					MADE GROUND : Turf over dark brown sandy gravelly clay and gravelly sand. Gravel is fine to coarse subangular of brick, metal, wood, sandstone, flint.	
1.10	D		1.00			MADE GROUND : Firm brown grey clay	1
2.10 2.20 2.20	D IPP 1 IPP 2	100 100	2.00			Firm brown grey sandy gravelly CLAY. Gravel is fine to coarse subangular of sandstone.	2
			2.60			Moderately strong brown SANDSTONE recovered as fine to coarse subangular clayey sandy gravel	
			2.80			Trialpit Complete at 2.80 m	3
							4

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: Groundwater ingress at 0.5m bgl.



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.00m	Logged By MM


Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	D		0.30			MADE GROUND : Dark grey black and light brown sandy compacted gravel of subangular stone, brick, limestone. Geotextile at 0.3m.
						MADE GROUND : Firm dark grey gravelly clay. Gravel is fine to coarse subangular of brick, concrete, mudstone, rare coal. Occasional boulders of concrete and whole bricks
2.00	D		3.00			
Trialpit Complete at 3.00 m						

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.00m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.20	D		0.30			MADE GROUND: Dark grey black sandy compacted gravel of subangular stone, brick. Geotextile at 0.3m.	
1.10	D					MADE GROUND: Firm dark grey gravelly clay. Gravel is fine to coarse subangular of brick, concrete, metal, mudstone. Whole bricks.	
			3.00				3
Trialpit Complete at 3.00 m							4

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.50m	Logged By MM



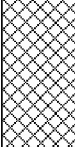
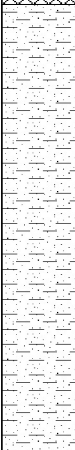
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			CONCRETE
0.80	D		0.70			MADE GROUND: Brown fine to coarse gravel of sandstone
			1.40			MADE GROUND: Firm locally soft brown gravelly clay. Gravel is fine to coarse subangular of flint, mudstone, brick.
1.50 1.50 1.50	IPP 1 IPP 2 D	50 75	2.00			Soft locally firm gravelly CLAY. Gravel is fine to coarse subangular to subrounded of flint
			2.30			Brown fine to coarse subrounded to rounded clayey GRAVEL of flint
2.40 2.40 2.40	IPP 1 IPP 2 IPP 3	100 100 125	2.50			Firm grey silty sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded of flint, mudstone.
Trialpit Complete at 2.50 m						

Remarks: Significant side collapses noted from 2m bgl. IPP= Penetrometer readings given as unconfined compressive strength in kN/m²

Groundwater: Fast ground water ingress at 0.5m and 2.1m bgl



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.30m	Logged By MM



Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50	D		0.20 0.30		 TARMAC	
					 MADE GROUND: Light brown fine to coarse subangular gravel of limestone	
					 MADE GROUND: Dark brown fine to coarse clayey gravelly sand and subangular gravel of mudstone, sandstone, brick.	
0.90	D		0.80		 Firm brown sandy CLAY	
1.50 1.50 1.50	IPP 1 IPP 2 D	100 125	2.30			
Trialpit Complete at 2.30 m						

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.00m	Logged By MM


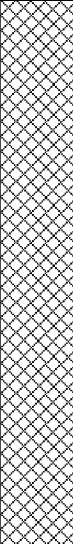

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50	D		0.40			Reinforced CONCRETE
			1.00			MADE GROUND : Light brown fine to coarse gravel of sandstone, limestone.
----- Trialpit Complete at 1.00 m -----						
						1 2 3 4

Remarks: Fast groundwater ingress from 0.5m bgl

Groundwater: Pit full of water. Excavation could not be continued



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.50m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.70	D		0.40			Reinforced CONCRETE
						MADE GROUND: Firm dark brown sandy gravelly clay. Gravel is fine to coarse subangular of brick, concrete, metal, mudstone. Whole bricks.
2.30 2.40	D D		2.20 2.50			Firm grey brown gravelly CLAY. Gravel is fine to coarse, subangular of mudstone, flint.
Trialpit Complete at 2.50 m						

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.00m	Logged By MM







Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Reinforced CONCRETE
0.50	D					MADE GROUND: Firm locally soft dark grey locally blackish gravelly clay. Gravel is fine to coarse subangular of brick, mudstone, sandstone, flint. Wood fragments.
1.30	D		1.20			MADE GROUND: Firm locally soft dark brown grey clay.
2.10	D		2.00			Firm brown sandy silty CLAY. Local pockets of red sand. Pockets of soft silty clay.
2.30	D					
2.60	IPP 1	100				
2.60	IPP 2	100				
2.60	IPP 3	75				
2.90	IPP 1	125	2.80			Firm grey brown CLAY
2.90	IPP 2	125	3.00			
Trialpit Complete at 3.00 m						

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.50m	Logged By MM







Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50	D		0.30			CONCRETE
			0.40			MADE GROUND: Light brown fine to coarse gravel of sandstone, limestone.
						MADE GROUND: Dark grey brown fine to coarse clayey very gravelly sand. ravel is fine to coarse subangular of bricks, concrete, sandstone.
						Strong red and reddish brown SANDSTONE recovered as fine to coarse sandy gravel
			2.20			
			2.50			
						Trialpit Complete at 2.50 m

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: - Depth 3.00m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30			Reinforced CONCRETE	
			0.70			MADE GROUND: Dark grey brown fine to coarse clayey very gravelly sand. ravel is fine to coarse subangular of bricks, concrete	
0.80	D		0.70			MADE GROUND: Firm dark brown sandy gravelly clay. Gravel is fine to coarse subangular of mudstone, sandstone, flint, brick.	1
1.50	D		1.40			MADE GROUND: Dark brown sandy gravelly clay. Gravel is fine to coarse subangular of mudstone, sandstone. Occasional boulders of sandstone.	
1.95	D		1.90			Firm dark grey brown gravelly CLAY. Gravel is fine to coarse subangular of mudstone and rare coal.	2
			2.70			Weak to moderately strong SHALE recovered as fine to coarse subangular flat gravel	
			3.00			Trialpit Complete at 3.00 m	3
							4

Remarks:

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: - Depth 2.60m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM

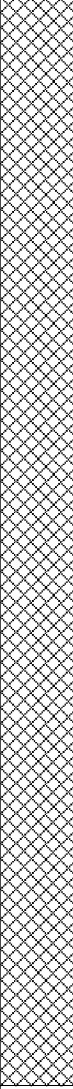
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Reinforced CONCRETE
0.60	D		0.40			MADE GROUND: Light brown fine to coarse gravel of sandstone, limestone, brick. MADE GROUND: Firm brown clay
1.30	IPP 1	100	1.40			Firm brown grey silty CLAY
1.30	IPP 2	100				
1.50	D		1.80			Firm grey silty gravelly CLAY. Gravel is fine to coarse subangular to subrounded of mudstone, flint
1.90	IPP 1	125				
2.00	D		2.60			Trialpit Complete at 2.60 m

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.60m	Logged By MM

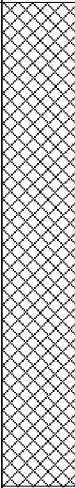
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	D					MADE GROUND : Turf over dark brown sandy gravelly clay. Gravel is fine to coarse of mudstone, brick, concrete, metal.
2.00	D					
			3.60			Trialpit Complete at 3.60 m

Remarks: Significant side collapses noted from 1.1m bgl.

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.60m	Logged By MM


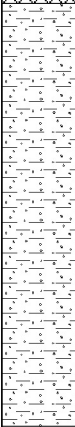

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					MADE GROUND: Turf over dark brown very sandy gravelly clay. Gravel is fine to coarse subangular of brick, concrete mudstone, flint.
			1.60			Trialpit Complete at 1.60 m

Remarks: Concrete obstruction at 1.6m bgl. Excavation terminated.

Groundwater: None encountered





Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.90m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			MADE GROUND: Turf over dark brown very sandy gravelly clay. Gravel is fine to coarse subangular of brick, mudstone, flint.
0.70	D					Firm locally stiff reddish brown grey gravelly CLAY. Gravel is fine to coarse subangular of sandstone.
1.50 1.60 1.60	D IPP 1 IPP 2	125 150	1.70			Strong reddish brown grey SANDSTONE recovered as fine to coarse subangular gravel and cobbles.
						----- Trialpit Complete at 1.90 m

Remarks:	IPP= Penetrometer readings given as unconfined compressive strength in kN/m2
Groundwater:	None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: - Level: -	Date 05/12/2016
Location: Darwen		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 3.00m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
2.45 2.50	IPP 1 D	150	2.40			MADE GROUND: Firm locally stiff dark grey gravelly clay. Gravel is fine to coarse subangular of mudstone, rare brick.
			3.00			Firm locally stiff grey CLAY
						Trialpit Complete at 3.00 m

Remarks: IPP= Penetrometer readings given as unconfined compressive strength in kN/m2

Groundwater: None encountered



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		1.00	SPT	N=36 N=36 (10,14,10,10,8,8)	4.50		MADE GROUND: Gravel over black ash sand. gravel is of brick, concrete and clay	1
		2.00	SPT	N=11 N=11 (3,3,2,3,3,3)				2
		3.00	SPT	N=3 N=3 (1,0,0,1,1,1)				3
		4.00	SPT	N=10 N=10 (8,8,3,2,2,3)				4
		5.00	SPT	N=12 N=12 (2,2,3,3,3,3)		Brown stiff gravelly CLAY with boulders.	5	
		6.50	SPT	N=15 N=15 (5,4,3,3,4,5)			6	
		8.00	SPT	N=28 N=28 (4,5,5,6,7,10)			8	
		9.00	SPT	N=30 N=30 (3,4,5,6,8,11)			9	

Continued next sheet

Remarks:



Project Name Hollins Road		Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen			Level: -	Scale 1:50
Client: Gleeson Developments Ltd			Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00	SPT	N=38 N=38 (3,5,6,7,11,14)	10.45		Brown stiff gravelly CLAY with boulders. ----- End of Borehole at 10.45 m	

11
12
13
14
15
16
17
18
19

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.90	SPT	75/140mm 140mm - Abandoned	1.40		MADE GROUND: Hardcore gravel, concrete, brick and sand boulders	1	
		2.00	SPT	51/275mm 275mm (10,6,3,15,18,15)	2.60		MADE GROUND: Soft grey gravelly clay	2	
		3.00	SPT	N=34 N=34 (10,9,7,8,9,10)			MADE GROUND: Brick, concrete gravels and boulders	3	
		4.20	SPT	N=2 N=2 (4,2,1,0,1,0)				4	
		6.50	SPT	N=27 N=27 (5,5,6,8,7,6)	6.50		SANDSTONE gravels, cobbles and sand	7	
		8.00	SPT	N=25 N=25 (4,4,6,6,6,7)	9.20			8	
		9.50	SPT	N=22 N=22 (3,3,4,5,6,7)			Gravelly CLAY with boulders	9	
			Type	Results					

Continued next sheet

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		11.00	SPT	N=37 N=37 (6,7,9,9,9,10)	11.45		Gravelly CLAY with boulders	11	
							End of Borehole at 11.45 m	12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT	N=6 N=6 (2,2,2,1,1,2)	1.50		MADE GROUND: Harcore gravels	1	
		2.00	SPT	N=3 N=3 (1,0,1,0,1,1)	2.70		MADE GROUND: Ash, sand, gravel, clay and brick	2	
		3.00	SPT	N=11 N=11 (2,1,2,3,3,3)	3.60		MADE GROUND: Grey mottled brown gravelly CLAY, reworked	3	
		4.00	SPT	N=18 N=18 (2,2,3,5,5,5)	4.30		Brown sandy gravelly friable CLAY with sandstone cobbles.	4	
		5.00	SPT	N=8 N=8 (2,3,1,2,2,3)	5.00		Wet sandy gravelly brown CLAY, sandstone and cobbles/boulders.	5	
		6.50	SPT	N=15 N=15 (1,2,3,3,4,5)			Borwn grey gravelly CLAY with boulders	6	
		8.00	SPT	N=23 N=23 (5,4,5,6,6,6)				7	
		9.00	SPT	N=32 N=32 (5,0,9,7,7,9)				8	
								9	

Continued next sheet

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.00	SPT	N=43 N=43 (5,5,8,11,12,12)	10.45		Borwn grey gravelly CLAY with boulders		
							----- End of Borehole at 10.45 m		
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
			Type	Results					

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT	N=12 N=12 (1,0,1,2,4,5)	2.60		MADE GROUND: Brown grey gravelly clay, concrete, brick and metal.	1	
		2.00	SPT	N=12 N=12 (1,2,2,2,3,5)				2	
		3.00	SPT	N=9 N=9 (1,2,2,2,2,3)			Brown grey gravelly CLAY	3	
		4.00	SPT	N=16 N=16 (1,2,5,3,4,4)				4	
		5.00	SPT	N=24 N=24 (2,4,5,6,6,7)				5	
		6.50	SPT	N=37 N=37 (9,11,7,7,8,15)				6	
		7.80	SPT	50/295mm 295mm (8,9,12,12,12,14)				7	
				8.20				8	
End of Borehole at 8.20 m								9	
								10	

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type Cable
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		1.00	SPT	N=17 N=17 (3,3,4,4,4,5)	1.70		MADE GROUND: Concrete, gravel, clay	1	
		2.00	SPT	N=18 N=18 (2,3,4,4,5,5)	2.70		Possible MADE GROUND: Brown grey gravelly boulder clay	2	
		3.00	SPT	N=29 N=29 (4,5,5,6,9,9)	4.45		Stiff brown sandy gravelly CLAY	3	
		4.00	SPT	N=42 N=42 (4,5,5,9,14,14)			End of Borehole at 4.45 m	4	
								5	
								6	
								7	
								8	
								9	

Remarks:



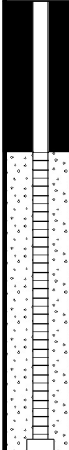

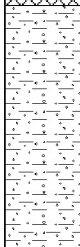

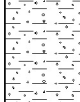
Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30		TOPSOIL: Grey black sandy topsoil with gravel and occasional roots	
					1.40		Grey sandy gravelly CLAY with boulders	
					3.00		Grey brown damp soft sandy gravelly CLAY	
							End of Borehole at 3.00 m	

Remarks:



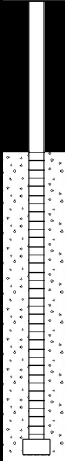
Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.40			MADE GROUND: Grey black sandy gravels.	
								Grey firm CLAY with sandy gravel, brown in places.	1
					2.10 2.20			CONCRETE	2
								Wet grey CLAY with gravels.	3
					3.00			End of Borehole at 3.00 m	3
									4
									5
									6
									7
									8
									9

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
							MADE GROUND: Grey sandy clay with brick and concrete	
		1.00	SPT	N=17 N=17 (3,4,4,4,5,4)	0.80 1.20		Red brick and SAND	
		2.00	SPT	N=15 N=15 (2,4,3,3,4,5)	2.10		Brown grey CLAY with a black organic pocket form 1.4m-1.5m	
		3.00	SPT	N=25 N=25 (4,5,6,6,6,7)	3.00		Grey CLAY with gravels	
							End of Borehole at 3.00 m	

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15		TARMAC	
					0.40		MADE GROUND: Grey black ash with sandstone gravels	
					0.60		Soft grey CLAY	
					1.10		Brown firm CLAY with occasional gravels	1
		1.00	SPT	N=19 N=19 (6,6,4,5,5,5)	1.10		Firm stiff red sandy gravelly CLAY	
		2.00	SPT	54/235mm 235mm (8,10,12,14,20,8)				2
		2.40	SPT	50/130mm 130mm (17,8,24,26)	2.40			
							End of Borehole at 2.40 m	3
								4
								5
								6
								7
								8
								9

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30		TOPSOIL: Grass over sandy topsoil with brick and gravels.	
							Grey brown sandy CLAY	
		1.00	SPT	50/125mm 125mm (3,8,10,40)	1.10			
		1.40	SPT	75/115mm 115mm - Abandoned	1.40			brown friable CLAY with sandstone
							End of Borehole at 1.40 m	

Remarks:



Project Name Hollins Road	Project No. 40361A	Co-ords: -	Hole Type WS
Location: Darwen		Level: -	Scale 1:50
Client: Gleeson Developments Ltd		Dates: 05/12/2016	Logged By Drillers

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		1.00	SPT	N=23 N=23 (3,4,5,6,6,6)	1.00 1.20		CONCRETE boulder with sand	
		2.00	SPT	N=19 N=19 (4,4,4,5,4,6)			GRAVEL Clayey grey wet SAND	
		3.00	SPT	N=33 N=33 (5,5,8,8,9,8)	2.80 3.00		Grey firm CLAY	
							End of Borehole at 3.00 m	

Remarks:



PROJECT :	HOLLINS ROAD, DARWEN	JOB No	DATE
SUBJECT :	DYNAMIC PROBE TESTING RESULTS	40361	13.12.16

Depth (m)	WS1		WS2	
	Blows Per 100 mm	N Number	Blows Per 100 mm	N Number
0.0-0.1	8	-	7	-
0.1-0.2	7	-	4	-
0.2-0.3	7	22	4	15
0.3-0.4	8	22	7	15
0.4-0.5	9	24	7	18
0.5-0.6	6	23	2	16
0.6-0.7	6	21	2	11
0.7-0.8	3	15	2	6
0.8-0.9	8	17	3	7
0.9-1.0	5	16	9	14
1.0-1.1	3	16	12	24
1.1-1.2	2	10	5	26
1.2-1.3	2	7	5	22
1.3-1.4	3	7	5	15
1.4-1.5	8	13	3	13
1.5-1.6	4	15	3	11
1.6-1.7	4	16	2	8
1.7-1.8	4	12	2	7
1.8-1.9	4	12	3	7
1.9-2.0	3	11	2	7
2.0-2.1	3	10	2	7
2.1-2.2	3	9	3	7
2.2-2.3	9	15	2	7
2.3-2.4	5	17	2	7
2.4-2.5	2	16	2	6
2.5-2.6	1	8	3	7
2.6-2.7	3	6	4	9
2.7-2.8	2	6	4	11
2.8-2.9	2	7	4	12
2.9-3.0	2	6	4	12
3.0-3.1	2	6	3	11
3.1-3.2	2	6	3	10
3.2-3.3	2	6	3	9
3.3-3.4	2	6	3	9
3.4-3.5	2	6	5	11
3.5-3.6	29	33	5	13
3.6-3.7	44	75	6	16
3.7-3.8			4	15
3.8-3.9			4	14
3.9-4.0			2	10
4.0-4.1			2	8
4.1-4.2			2	6
4.2-4.3			3	7
4.3-4.4			2	7
4.4-4.5			1	6
4.5-4.6			1	4
4.6-4.7			1	3
4.7-4.8			2	4
4.8-4.9			1	4
4.9-5.0			4	7
5.0-5.1			14	19
5.1-5.2			5	23
5.2-5.3			3	22
5.3-5.4			3	11
5.4-5.5			2	8
5.5-5.6			3	8
5.6-5.7			3	8
5.7-5.8			4	10
5.8-5.9			4	11
5.9-6.0			5	13
6.0-6.1			3	12
6.1-6.2			4	12
6.2-6.3			4	11
6.3-6.4			4	12
6.4-6.5			4	12
6.5-6.6			5	13
6.6-6.7			7	16
6.7-6.8			7	19
6.8-6.9			6	20
6.9-7.0			6	19
7.0-7.1			7	19
7.1-7.2			7	20
7.2-7.3			6	20
7.3-7.4			5	18
7.4-7.5			5	16
7.5-7.6			5	15
7.6-7.7			5	15
7.7-7.8			6	16
7.8-7.9			6	17
7.9-8.0			5	17
8.0-8.1			4	15
8.1-8.2			6	15
8.2-8.3			8	18
8.3-8.4			7	21
8.4-8.5			7	22
8.5-8.6			11	25
8.6-8.7			7	25
8.7-8.8			6	24
8.8-8.9			7	20
8.9-9.0			5	18
9.0-9.1			6	18
9.1-9.2			6	17
9.2-9.3			7	19
9.3-9.4			8	21
9.4-9.5			9	24
9.5-9.6			8	25
9.6-9.7			7	24
9.7-9.8			8	23
9.8-9.9			10	25
9.9-10			10	28
10.0-10.1			12	32
10.1-10.2			10	32
10.2-10.3			12	34
10.3-10.4			14	36
10.4-10.5			16	42
10.5-10.6			16	46
10.6-10.7			17	49

Appendix 4

Geotechnical Test Results, PSL16/5538



LABORATORY REPORT



4043

Contract Number: PSL16/5538

Report Date: 28 November 2016
Client's Reference: 40361
Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Miltiadis Mellios

Contract Title: Hollins Drive, Darwen
Date Received: 24/11/2016
Date Commenced: 24/11/2016
Date Completed: 28/11/2016

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson
(Director)

A Watkins
(Director)

R Berriman
(Quality Manager)

D Lambe
(Senior Technician)

S Royle
(Senior Technician)




W Allen
(Senior Technician)

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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP3			3.10		Brown slightly gravelly very sandy CLAY.
TP4			2.60		Brown slightly gravelly very sandy CLAY.
TP6			2.00		Brown slightly gravelly very sandy CLAY.
TP12			2.60		Brown slightly gravelly very sandy CLAY.
TP13			2.10		Brown slightly gravelly very sandy CLAY.
TP17			1.50		Brown slightly gravelly very sandy CLAY.
TP22			1.95		Brown slightly gravelly very sandy CLAY.
TP23			2.00		Brown slightly gravelly very sandy CLAY.

 	Checked / Approved		Date	28/11/16	Contract No:
	Hollins Road, Darwen				PSL16/5538
					Client Ref:
					40361




SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP3			3.10		11			30	15	15	88	Low plasticity CL.
TP4			2.60		15			34	17	17	92	Low plasticity CL.
TP6			2.00		17			31	16	15	91	Low plasticity CL.
TP12			2.60		20			33	17	16	90	Low plasticity CL.
TP13			2.10		16			34	18	16	87	Low plasticity CL.
TP17			1.50		15			36	19	17	90	Intermediate plasticity CI.
TP22			1.95		15			29	16	13	86	Low plasticity CL.
TP23			2.00		18			28	15	13	94	Low plasticity CL.

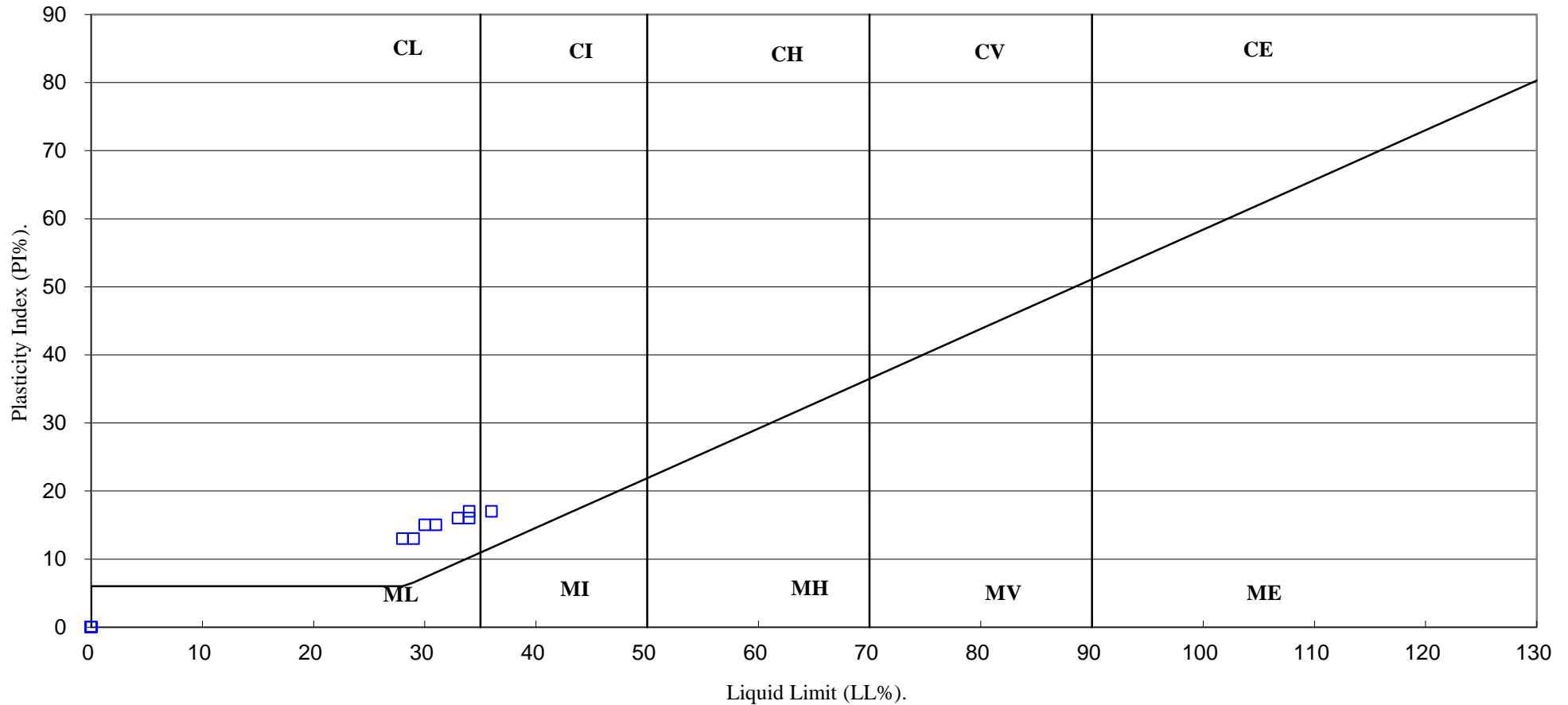
SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

 	Checked / Approved		Date	28/11/16	Contract No:
	Hollins Road, Darwen				PSL16/5538
					Client Ref:
					40361

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(BS5930 :2015)



PSL
Professional Soils Laboratory

Checked /Approved

Date

28/11/16

Contract No:

PSL16/5538

Hollins Road, Darwen

Client Ref:

40361

Appendix 5

Chemtest Reports 16-28705-2 and 16-28160-3
Table of Assessment Values



Amended Report

Report No.: 16-28705-2

Initial Date of Issue: 29-Nov-2016 **Date of Re-Issue:** 19-Dec-2016

Client: Eastwood & Partners

Client Address: St. Andrews House
23 Kingfield Road
Sheffield
South Yorkshire
S11 9AS

Contact(s): Geo
Miltiadis Mellios

Project: 40361 - Hollins Road, Darwen


Quotation No.: **Date Received:** 23-Nov-2016

Order No.: **Date Instructed:** 23-Nov-2016

No. of Samples: 14

Turnaround (Wkdays): 18 **Results Due:** 16-Dec-2016

Date Approved: 19-Dec-2016

Approved By:


Details: Keith Jones, Technical Manager

Client: Eastwood & Partners	Chemtest Job No.:				16-28705
Quotation No.:	Chemtest Sample ID.:				382131
Order No.:	Client Sample Ref.:				TP25
	Sample Type:				SOIL
	Top Depth (m):				0.1
	Date Sampled:				18-Nov-2016
Determinand	Accred.	SOP	Units	LOD	
Arsenic (Total)	U	1450	µg/l	1.0	6.6
Cadmium (Total)	U	1450	µg/l	0.080	0.11
Chromium (Total)	U	1450	µg/l	1.0	< 1.0
Copper (Total)	U	1450	µg/l	1.0	9.1
Mercury (Total)	U	1450	µg/l	0.50	< 0.50
Nickel (Total)	U	1450	µg/l	1.0	< 1.0
Lead (Total)	U	1450	µg/l	1.0	13
Selenium (Total)	U	1450	µg/l	1.0	< 1.0
Zinc (Total)	U	1450	µg/l	1.0	12
Naphthalene	U	1700	µg/l	0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:		16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:	Chemtest Sample ID.:		382101	382106	382107	382114	382119	382120	382124	382125	382127		
Order No.:	Client Sample Ref.:		TP9	TP12	TP13	TP16	TP19	TP19	TP21	TP22	TP23		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.95	1.1	0.3	0.8	0.7	2.3	0.5	0.8	0.6		
	Date Sampled:		16-Nov-2016	17-Nov-2016	16-Nov-2016	17-Nov-2016	18-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	17-Nov-2016		
	Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY	COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A		Fibres/Clumps	-	-	-		-	-	-
Asbestos Identification	U	2192	%	0.001		Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001			<0.001						
Total Asbestos	N	2192	%	0.001			<0.001						
Moisture	N	2030	%	0.020	7.8	17	7.3	11	20	12	18	21	22
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	NONE
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Sand	Clay	Clay	Sand	Clay	Clay
pH	M	2010		N/A	8.7	8.0	8.9	8.4	9.0	8.4	8.6	7.9	7.2
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	0.065	< 0.010	< 0.010	0.046	< 0.010	< 0.010	0.042	< 0.010
Total Sulphur	M	2175	%	0.010	0.010	0.10	0.020	0.010	0.060	0.16	0.28	0.090	0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	0.067	0.017	< 0.010	0.071	0.015	0.11	0.13	0.011
Arsenic	M	2450	mg/kg	1.0	5.1	8.4	11	4.5	16	6.7	17	15	7.5
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.23	0.23	0.22	0.66	0.26	0.23	0.24	< 0.10
Chromium	M	2450	mg/kg	1.0	15	23	13	12	26	19	17	19	23
Copper	M	2450	mg/kg	0.50	11	28	19	15	120	29	82	43	11
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.63	< 0.10	0.14	0.16	< 0.10
Nickel	M	2450	mg/kg	0.50	19	35	13	16	30	27	42	21	18
Lead	M	2450	mg/kg	0.50	5.2	29	47	10	170	27	74	83	16
Selenium	M	2450	mg/kg	0.20	< 0.20	0.45	< 0.20	< 0.20	0.39	0.43	0.38	0.53	0.59
Zinc	M	2450	mg/kg	0.50	26	67	44	35	140	54	76	97	42
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			1.6			1.1		5.1	0.77
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0				< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0				< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			2.1				< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			6.4				8.5	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			7.6				27	< 1.0	

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:										
Quotation No.:	Chemtest Sample ID.:										
Order No.:	Client Sample Ref.:										
	Sample Type:										
	Top Depth (m):										
	Date Sampled:										
	Asbestos Lab:										
Determinand	Accred.	SOP	Units	LOD	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			15			35	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0			< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			31			71	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			31			71	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0					< 1.0		
Chloromethane	M	2760	µg/kg	1.0					< 1.0		
Vinyl Chloride	M	2760	µg/kg	1.0					< 1.0		
Bromomethane	M	2760	µg/kg	20					< 20		
Chloroethane	U	2760	µg/kg	2.0					< 2.0		
Trichlorofluoromethane	M	2760	µg/kg	1.0					< 1.0		
1,1-Dichloroethene	M	2760	µg/kg	1.0					< 1.0		
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0					< 1.0		
1,1-Dichloroethane	M	2760	µg/kg	1.0					< 1.0		
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0					< 1.0		
Bromochloromethane	U	2760	µg/kg	5.0					< 5.0		
Trichloromethane	M	2760	µg/kg	1.0					< 1.0		
1,1,1-Trichloroethane	M	2760	µg/kg	1.0					< 1.0		
Tetrachloromethane	M	2760	µg/kg	1.0					< 1.0		
1,1-Dichloropropene	U	2760	µg/kg	1.0					< 1.0		
Benzene	M	2760	µg/kg	1.0					< 1.0		< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0					< 2.0		
Trichloroethene	M	2760	µg/kg	1.0					< 1.0		
1,2-Dichloropropane	M	2760	µg/kg	1.0					< 1.0		
Dibromomethane	M	2760	µg/kg	1.0					< 1.0		
Bromodichloromethane	M	2760	µg/kg	5.0					< 5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10					< 10		
Toluene	M	2760	µg/kg	1.0					< 1.0		< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10					< 10		
1,1,2-Trichloroethane	M	2760	µg/kg	10					< 10		
Tetrachloroethene	M	2760	µg/kg	1.0					< 1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0					< 2.0		
Dibromochloromethane	U	2760	µg/kg	10					< 10		
1,2-Dibromoethane	M	2760	µg/kg	5.0					< 5.0		
Chlorobenzene	M	2760	µg/kg	1.0					< 1.0		
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0					< 2.0		
Ethylbenzene	M	2760	µg/kg	1.0					< 1.0		< 1.0
m & p-Xylene	M	2760	µg/kg	1.0					< 1.0		< 1.0
o-Xylene	M	2760	µg/kg	1.0					< 1.0		< 1.0
Styrene	M	2760	µg/kg	1.0					< 1.0		

Project: 40361 - Hollins Road, Darwen

Client: Eastwood & Partners		Chemtest Job No.:		16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:		Chemtest Sample ID.:		382101	382106	382107	382114	382119	382120	382124	382125	382127
Order No.:		Client Sample Ref.:		TP9	TP12	TP13	TP16	TP19	TP19	TP21	TP22	TP23
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.95	1.1	0.3	0.8	0.7	2.3	0.5	0.8	0.6
		Date Sampled:		16-Nov-2016	17-Nov-2016	16-Nov-2016	17-Nov-2016	18-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	17-Nov-2016
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Tribromomethane	U	2760	µg/kg	1.0				< 1.0				
Isopropylbenzene	M	2760	µg/kg	1.0				< 1.0				
Bromobenzene	M	2760	µg/kg	1.0				< 1.0				
1,2,3-Trichloropropane	N	2760	µg/kg	50				< 50				
N-Propylbenzene	U	2760	µg/kg	1.0				< 1.0				
2-Chlorotoluene	M	2760	µg/kg	1.0				< 1.0				
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0				< 1.0				
4-Chlorotoluene	U	2760	µg/kg	1.0				< 1.0				
Tert-Butylbenzene	U	2760	µg/kg	1.0				< 1.0				
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0				< 1.0				
Sec-Butylbenzene	U	2760	µg/kg	1.0				< 1.0				
1,3-Dichlorobenzene	M	2760	µg/kg	1.0				< 1.0				
4-Isopropyltoluene	U	2760	µg/kg	1.0				< 1.0				
1,4-Dichlorobenzene	M	2760	µg/kg	1.0				< 1.0				
N-Butylbenzene	U	2760	µg/kg	1.0				< 1.0				
1,2-Dichlorobenzene	M	2760	µg/kg	1.0				< 1.0				
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50				< 50				
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0				< 1.0				
Hexachlorobutadiene	U	2760	µg/kg	1.0				< 1.0				
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0				< 2.0				
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0				< 1.0				
N-Nitrosodimethylamine	N	2790	mg/kg	0.50				< 0.50				
Phenol	N	2790	mg/kg	0.50				< 0.50				
2-Chlorophenol	N	2790	mg/kg	0.50				< 0.50				
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.50				< 0.50				
1,3-Dichlorobenzene	N	2790	mg/kg	0.50				< 0.50				
1,4-Dichlorobenzene	N	2790	mg/kg	0.50				< 0.50				
1,2-Dichlorobenzene	N	2790	mg/kg	0.50				< 0.50				
2-Methylphenol	N	2790	mg/kg	0.50				< 0.50				
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.50				< 0.50				
Hexachloroethane	N	2790	mg/kg	0.50				< 0.50				
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.50				< 0.50				
4-Methylphenol	N	2790	mg/kg	0.50				< 0.50				
Nitrobenzene	N	2790	mg/kg	0.50				< 0.50				
Isophorone	N	2790	mg/kg	0.50				< 0.50				
2-Nitrophenol	N	2790	mg/kg	0.50				< 0.50				
2,4-Dimethylphenol	N	2790	mg/kg	0.50				< 0.50				
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.50				< 0.50				
2,4-Dichlorophenol	N	2790	mg/kg	0.50				< 0.50				

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:													
Quotation No.:	Chemtest Sample ID.:													
Order No.:	Client Sample Ref.:													
	Sample Type:													
	Top Depth (m):													
	Date Sampled:													
	Asbestos Lab:													
Determinand	Accred.	SOP	Units	LOD	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705	16-28705
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.50									< 0.50	
Naphthalene	N	2790	mg/kg	0.50									< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50									< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.50									< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.50									< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.50									< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50									< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50									< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50									< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50									< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.50									< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.50									< 0.50	
Acenaphthylene	N	2790	mg/kg	0.50									< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.50									< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.50									< 0.50	
Acenaphthene	N	2790	mg/kg	0.50									< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50									< 0.50	
Dibenzofuran	N	2790	mg/kg	0.50									< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.50									< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.50									< 0.50	
Fluorene	N	2790	mg/kg	0.50									< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.50									< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.50									< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50									< 0.50	
Azobenzene	N	2790	mg/kg	0.50									< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.50									< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.50									< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50									< 0.50	
Phenanthrene	N	2790	mg/kg	0.50									< 0.50	
Anthracene	N	2790	mg/kg	0.50									< 0.50	
Carbazole	N	2790	mg/kg	0.50									< 0.50	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50									< 0.50	
Fluoranthene	N	2790	mg/kg	0.50									< 0.50	
Pyrene	N	2790	mg/kg	0.50									< 0.50	
Butylbenzyl Phthalate	N	2790	mg/kg	0.50									< 0.50	
Benzo[a]anthracene	N	2790	mg/kg	0.50									< 0.50	
Chrysene	N	2790	mg/kg	0.50									< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50									< 0.50	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50									< 0.50	

Results - Soil

Client: Eastwood & Partners		Chemtest Job No.:											
Quotation No.:	Chemtest Sample ID.:												
Order No.:	Client Sample Ref.:												
	Sample Type:												
	Top Depth (m):												
	Date Sampled:												
	Asbestos Lab:												
Determinand	Accred.	SOP	Units	LOD									
Benzo[b]fluoranthene	N	2790	mg/kg	0.50					< 0.50				
Benzo[k]fluoranthene	N	2790	mg/kg	0.50					< 0.50				
Benzo[a]pyrene	N	2790	mg/kg	0.50					< 0.50				
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50					< 0.50				
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50					< 0.50				
Benzo[g,h,i]perylene	N	2790	mg/kg	0.50					< 0.50				
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.36	< 0.10	< 0.10	< 0.10	0.74	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.66	< 0.10	< 0.10	< 0.10	2.2	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.91	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.13	7.1	< 0.10	0.32	< 0.10	11	0.87	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.14	1.3	< 0.10	< 0.10	< 0.10	2.1	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	6.6	< 0.10	1.1	< 0.10	16	0.82	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	5.2	< 0.10	0.88	< 0.10	14	0.65	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	2.2	< 0.10	0.12	< 0.10	6.5	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	2.1	< 0.10	0.15	< 0.10	6.9	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	2.0	< 0.10	< 0.10	< 0.10	7.5	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.58	< 0.10	< 0.10	< 0.10	2.6	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	6.1	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.63	< 0.10	< 0.10	< 0.10	3.1	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.83	< 0.10	< 0.10	< 0.10	3.5	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	32	< 2.0	2.6	< 2.0	84	2.3	< 2.0

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:				16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:	Chemtest Sample ID.:				382128	382131	382132	382133	382134
Order No.:	Client Sample Ref.:				TP23	TP25	TP26	TP26	S1
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.5	0.1	0.1	0.7	0.1
	Date Sampled:				18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016
	Asbestos Lab:					COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD					
ACM Type	U	2192		N/A		Fibres/Clumps	-		-
Asbestos Identification	U	2192	%	0.001		Chrysotile	No Asbestos Detected		No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001		0.004			
Total Asbestos	N	2192	%	0.001		0.004			
Moisture	N	2030	%	0.020	21	17	32	22	33
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	NONE	Stones	Roots	Stones	Roots
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay
pH	M	2010		N/A	7.8	9.3	7.6	8.1	7.6
Sulphate (2:1 Water Soluble) as SO ₄	M	2120	g/l	0.010	< 0.010	0.029	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010	0.010	0.10	0.070	0.030	0.050
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	0.13	0.057	0.012	0.052
Arsenic	M	2450	mg/kg	1.0	7.8	20	22	9.4	21
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.30	0.74	< 0.10	0.65
Chromium	M	2450	mg/kg	1.0	24	21	27	32	29
Copper	M	2450	mg/kg	0.50	14	77	95	22	110
Mercury	M	2450	mg/kg	0.10	< 0.10	0.20	0.30	< 0.10	0.27
Nickel	M	2450	mg/kg	0.50	19	23	25	17	25
Lead	M	2450	mg/kg	0.50	14	120	190	26	160
Selenium	M	2450	mg/kg	0.20	0.48	0.27	0.90	0.75	0.98
Zinc	M	2450	mg/kg	0.50	30	200	280	53	280
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			3.5	0.91	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0					
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0					
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0					
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0					
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0					
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0					
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0					
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0					
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0					
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0					
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0					
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0					
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0					
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0					

Project: 40361 - Hollins Road, Darwin

Client: Eastwood & Partners		Chemtest Job No.:			16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:		Chemtest Sample ID.:			382128	382131	382132	382133	382134
Order No.:		Client Sample Ref.:			TP23	TP25	TP26	TP26	S1
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.5	0.1	0.1	0.7	0.1
		Date Sampled:			18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016
		Asbestos Lab:				COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD					
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0					
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0					
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0					
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0					
Dichlorodifluoromethane	U	2760	µg/kg	1.0					
Chloromethane	M	2760	µg/kg	1.0					
Vinyl Chloride	M	2760	µg/kg	1.0					
Bromomethane	M	2760	µg/kg	20					
Chloroethane	U	2760	µg/kg	2.0					
Trichlorofluoromethane	M	2760	µg/kg	1.0					
1,1-Dichloroethene	M	2760	µg/kg	1.0					
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0					
1,1-Dichloroethane	M	2760	µg/kg	1.0					
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0					
Bromochloromethane	U	2760	µg/kg	5.0					
Trichloromethane	M	2760	µg/kg	1.0					
1,1,1-Trichloroethane	M	2760	µg/kg	1.0					
Tetrachloromethane	M	2760	µg/kg	1.0					
1,1-Dichloropropene	U	2760	µg/kg	1.0					
Benzene	M	2760	µg/kg	1.0					
1,2-Dichloroethane	M	2760	µg/kg	2.0					
Trichloroethene	M	2760	µg/kg	1.0					
1,2-Dichloropropane	M	2760	µg/kg	1.0					
Dibromomethane	M	2760	µg/kg	1.0					
Bromodichloromethane	M	2760	µg/kg	5.0					
cis-1,3-Dichloropropene	N	2760	µg/kg	10					
Toluene	M	2760	µg/kg	1.0					
Trans-1,3-Dichloropropene	N	2760	µg/kg	10					
1,1,2-Trichloroethane	M	2760	µg/kg	10					
Tetrachloroethene	M	2760	µg/kg	1.0					
1,3-Dichloropropane	U	2760	µg/kg	2.0					
Dibromochloromethane	U	2760	µg/kg	10					
1,2-Dibromoethane	M	2760	µg/kg	5.0					
Chlorobenzene	M	2760	µg/kg	1.0					
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0					
Ethylbenzene	M	2760	µg/kg	1.0					
m & p-Xylene	M	2760	µg/kg	1.0					
o-Xylene	M	2760	µg/kg	1.0					
Styrene	M	2760	µg/kg	1.0					

Client: Eastwood & Partners	Chemtest Job No.:				16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:	Chemtest Sample ID.:				382128	382131	382132	382133	382134
Order No.:	Client Sample Ref.:				TP23	TP25	TP26	TP26	S1
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.5	0.1	0.1	0.7	0.1
	Date Sampled:				18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016
	Asbestos Lab:					COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD					
Tribromomethane	U	2760	µg/kg	1.0					
Isopropylbenzene	M	2760	µg/kg	1.0					
Bromobenzene	M	2760	µg/kg	1.0					
1,2,3-Trichloropropane	N	2760	µg/kg	50					
N-Propylbenzene	U	2760	µg/kg	1.0					
2-Chlorotoluene	M	2760	µg/kg	1.0					
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0					
4-Chlorotoluene	U	2760	µg/kg	1.0					
Tert-Butylbenzene	U	2760	µg/kg	1.0					
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0					
Sec-Butylbenzene	U	2760	µg/kg	1.0					
1,3-Dichlorobenzene	M	2760	µg/kg	1.0					
4-Isopropyltoluene	U	2760	µg/kg	1.0					
1,4-Dichlorobenzene	M	2760	µg/kg	1.0					
N-Butylbenzene	U	2760	µg/kg	1.0					
1,2-Dichlorobenzene	M	2760	µg/kg	1.0					
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50					
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0					
Hexachlorobutadiene	U	2760	µg/kg	1.0					
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0					
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0					
N-Nitrosodimethylamine	N	2790	mg/kg	0.50					
Phenol	N	2790	mg/kg	0.50					
2-Chlorophenol	N	2790	mg/kg	0.50					
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.50					
1,3-Dichlorobenzene	N	2790	mg/kg	0.50					
1,4-Dichlorobenzene	N	2790	mg/kg	0.50					
1,2-Dichlorobenzene	N	2790	mg/kg	0.50					
2-Methylphenol	N	2790	mg/kg	0.50					
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.50					
Hexachloroethane	N	2790	mg/kg	0.50					
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.50					
4-Methylphenol	N	2790	mg/kg	0.50					
Nitrobenzene	N	2790	mg/kg	0.50					
Isophorone	N	2790	mg/kg	0.50					
2-Nitrophenol	N	2790	mg/kg	0.50					
2,4-Dimethylphenol	N	2790	mg/kg	0.50					
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.50					
2,4-Dichlorophenol	N	2790	mg/kg	0.50					

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Client: Eastwood & Partners		Chemtest Job No.:			16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:		Chemtest Sample ID.:			382128	382131	382132	382133	382134
Order No.:		Client Sample Ref.:			TP23	TP25	TP26	TP26	S1
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.5	0.1	0.1	0.7	0.1
		Date Sampled:			18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016
		Asbestos Lab:				COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD					
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.50					
Naphthalene	N	2790	mg/kg	0.50					
4-Chloroaniline	N	2790	mg/kg	0.50					
Hexachlorobutadiene	N	2790	mg/kg	0.50					
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.50					
2-Methylnaphthalene	N	2790	mg/kg	0.50					
4-Nitrophenol	N	2790	mg/kg	0.50					
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50					
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50					
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50					
2-Chloronaphthalene	N	2790	mg/kg	0.50					
2-Nitroaniline	N	2790	mg/kg	0.50					
Acenaphthylene	N	2790	mg/kg	0.50					
Dimethylphthalate	N	2790	mg/kg	0.50					
2,6-Dinitrotoluene	N	2790	mg/kg	0.50					
Acenaphthene	N	2790	mg/kg	0.50					
3-Nitroaniline	N	2790	mg/kg	0.50					
Dibenzofuran	N	2790	mg/kg	0.50					
4-Chlorophenylphenylether	N	2790	mg/kg	0.50					
2,4-Dinitrotoluene	N	2790	mg/kg	0.50					
Fluorene	N	2790	mg/kg	0.50					
Diethyl Phthalate	N	2790	mg/kg	0.50					
4-Nitroaniline	N	2790	mg/kg	0.50					
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50					
Azobenzene	N	2790	mg/kg	0.50					
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.50					
Hexachlorobenzene	N	2790	mg/kg	0.50					
Pentachlorophenol	N	2790	mg/kg	0.50					
Phenanthrene	N	2790	mg/kg	0.50					
Anthracene	N	2790	mg/kg	0.50					
Carbazole	N	2790	mg/kg	0.50					
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50					
Fluoranthene	N	2790	mg/kg	0.50					
Pyrene	N	2790	mg/kg	0.50					
Butylbenzyl Phthalate	N	2790	mg/kg	0.50					
Benzo[a]anthracene	N	2790	mg/kg	0.50					
Chrysene	N	2790	mg/kg	0.50					
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50					
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50					

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Client: Eastwood & Partners		Chemtest Job No.:		16-28705	16-28705	16-28705	16-28705	16-28705
Quotation No.:		Chemtest Sample ID.:		382128	382131	382132	382133	382134
Order No.:		Client Sample Ref.:		TP23	TP25	TP26	TP26	S1
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.5	0.1	0.1	0.7	0.1
		Date Sampled:		18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016	18-Nov-2016
		Asbestos Lab:			COVENTRY	COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Benzo[b]fluoranthene	N	2790	mg/kg	0.50				
Benzo[k]fluoranthene	N	2790	mg/kg	0.50				
Benzo[a]pyrene	N	2790	mg/kg	0.50				
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50				
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50				
Benzo[g,h,i]perylene	N	2790	mg/kg	0.50				
Naphthalene	M	2800	mg/kg	0.10	< 0.10	0.11	0.13	< 0.10 < 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	< 0.10 < 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	< 0.10 < 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	1.7	0.32	< 0.10 0.15
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10 < 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	2.4	0.39	< 0.10 0.29
Pyrene	M	2800	mg/kg	0.10	< 0.10	2.0	0.26	< 0.10 0.25
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	0.77	< 0.10	< 0.10 < 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.95	< 0.10	< 0.10 < 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10 < 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.19	< 0.10	< 0.10 < 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.77	< 0.10	< 0.10 < 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	0.39	< 0.10	< 0.10 < 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10 < 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	0.54	< 0.10	< 0.10 < 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	11	< 2.0	< 2.0 < 2.0

SOP	Title	Parameters included	Method summary
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5-C6, >C6-C8,>C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk



Amended Report

Report No.: 16-28160-3

Initial Date of Issue: 29-Nov-2016 **Date of Re-Issue:** 13-Jan-2017

Client: Eastwood & Partners

Client Address: St. Andrews House
23 Kingfield Road
Sheffield
South Yorkshire
S11 9AS

Contact(s): Geo
Miltiadis Mellios

Project: 40361 - Hollins Road, Darwen

Quotation No.: **Date Received:** 18-Nov-2016


Order No.: **Date Instructed:** 23-Nov-2016

No. of Samples: 13

Turnaround (Wkdays): 32 **Results Due:** 13-Jan-2017

Date Approved: 13-Jan-2017

Approved By:



Details: Robert Monk, Technical Development
Chemist

Client: Eastwood & Partners	Chemtest Job No.:				16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:				380000	380006	380009	380011
Order No.:	Client Sample Ref.:				TP1	TP4	TP4	TP5
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.2	2.6	0.5
	Date Sampled:				16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016
Determinand	Accred.	SOP	Units	LOD				
Lead (Dissolved)	U	1450	µg/l	1.0			5.7	
Arsenic (Total)	U	1450	µg/l	1.0	3.4	1.8		3.2
Cadmium (Total)	U	1450	µg/l	0.080	0.19	0.14		0.080
Chromium (Total)	U	1450	µg/l	1.0	< 1.0	< 1.0		3.7
Copper (Total)	U	1450	µg/l	1.0	12	14		7.8
Mercury (Total)	U	1450	µg/l	0.50	< 0.50	< 0.50		< 0.50
Nickel (Total)	U	1450	µg/l	1.0	1.4	12		< 1.0
Lead (Total)	U	1450	µg/l	1.0	2.1	4.6		47
Selenium (Total)	U	1450	µg/l	1.0	< 1.0	< 1.0		< 1.0
Zinc (Total)	U	1450	µg/l	1.0	26	390		21
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10		< 0.10		
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10		< 0.10		
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0		< 5.0		
Aromatic TPH >C5-C7	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C7-C8	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C8-C10	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C10-C12	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C12-C16	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C16-C21	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C21-C35	N	1675	µg/l	0.10		< 0.10		
Aromatic TPH >C35-C44	N	1675	µg/l	0.10		< 0.10		
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0		< 5.0		
Total Petroleum Hydrocarbons	N	1675	µg/l	10		< 10		
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10

Project: 40361 - Hollins Road, Darwin

Client: Eastwood & Partners	Chemtest Job No.:				16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:				380000	380006	380009	380011
Order No.:	Client Sample Ref.:				TP1	TP4	TP4	TP5
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.2	2.6	0.5
	Date Sampled:				16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016
Determinand	Accred.	SOP	Units	LOD				
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10		< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0		< 2.0

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:		16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:		380000	380001	380003	380004	380006	380009	380011	380012	380014		
Order No.:	Client Sample Ref.:		TP1	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.1	1.0	1.5	0.2	0.2	2.6	0.5	0.3	1.4		
	Date Sampled:		16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016		
	Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY			
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	25	26	13	12	42	12	13	7.7	14
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones,Roots	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Sand	Sand	Clay	Sand	Sand	Clay
pH	M	2010		N/A	9.1	8.1	8.0	8.5	7.8	6.3	8.5	8.5	8.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.95	0.20	0.61	0.033	0.070	< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010	0.48	0.13	0.27	0.14	0.63	0.030	0.080	0.020	0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	0.65	0.19	0.58	0.090	0.34	0.016	0.088	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	40	25	31	18	30	9.8	16	8.2	9.1
Cadmium	M	2450	mg/kg	0.10	1.1	0.62	0.32	1.1	1.8	0.20	0.68	0.34	0.57
Chromium	M	2450	mg/kg	1.0	64	35	23	12	36	28	42	130	26
Copper	M	2450	mg/kg	0.50	750	150	73	62	750	120	38	40	28
Mercury	M	2450	mg/kg	0.10	0.55	0.51	0.50	0.19	1.1	0.14	0.12	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	85	38	41	16	37	37	19	130	42
Lead	M	2450	mg/kg	0.50	2500	370	120	210	5400	500	2200	150	22
Selenium	M	2450	mg/kg	0.20	0.25	0.77	1.1	< 0.20	0.63	0.50	0.21	< 0.20	0.36
Zinc	M	2450	mg/kg	0.50	1700	360	160	220	1700	220	150	310	80
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	7.6				26				
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	5.9	< 1.0		< 1.0	58		8.2	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	75		3.2	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	2.3	< 1.0		< 1.0	55		6.7	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	13	< 1.0		< 1.0	50		6.2	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	35	< 1.0		< 1.0	72		35	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		31	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	56	< 5.0		< 5.0	310		90	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	10		< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	45		< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	140		2.9	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	40	3.3		67	1000		54	< 1.0	

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:					16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:					380000	380001	380003	380004	380006	380009	380011	380012	380014
Order No.:	Client Sample Ref.:					TP1	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.1	1.0	1.5	0.2	0.2	2.6	0.5	0.3	1.4
	Date Sampled:					16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD										
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	550	8.0		100	9500		1600	< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		5.6	270		380	< 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	590	11		180	11000		2100	< 5.0		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	650	11		180	11000		2100	< 10		
Dichlorodifluoromethane	U	2760	µg/kg	1.0								< 1.0		
Chloromethane	M	2760	µg/kg	1.0								< 1.0		
Vinyl Chloride	M	2760	µg/kg	1.0								< 1.0		
Bromomethane	M	2760	µg/kg	20								< 20		
Chloroethane	U	2760	µg/kg	2.0								< 2.0		
Trichlorofluoromethane	M	2760	µg/kg	1.0								< 1.0		
1,1-Dichloroethene	M	2760	µg/kg	1.0								< 1.0		
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0								< 1.0		
1,1-Dichloroethane	M	2760	µg/kg	1.0								< 1.0		
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0								< 1.0		
Bromochloromethane	U	2760	µg/kg	5.0								< 5.0		
Trichloromethane	M	2760	µg/kg	1.0								< 1.0		
1,1,1-Trichloroethane	M	2760	µg/kg	1.0								< 1.0		
Tetrachloromethane	M	2760	µg/kg	1.0								< 1.0		
1,1-Dichloropropene	U	2760	µg/kg	1.0								< 1.0		
Benzene	M	2760	µg/kg	1.0	< 1.0			< 1.0	63		< 1.0	< 1.0		
1,2-Dichloroethane	M	2760	µg/kg	2.0								< 2.0		
Trichloroethene	M	2760	µg/kg	1.0								< 1.0		
1,2-Dichloropropane	M	2760	µg/kg	1.0								< 1.0		
Dibromomethane	M	2760	µg/kg	1.0								< 1.0		
Bromodichloromethane	M	2760	µg/kg	5.0								< 5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10								< 10		
Toluene	M	2760	µg/kg	1.0	< 1.0			< 1.0	7.5		< 1.0	< 1.0		
Trans-1,3-Dichloropropene	N	2760	µg/kg	10								< 10		
1,1,2-Trichloroethane	M	2760	µg/kg	10								< 10		
Tetrachloroethene	M	2760	µg/kg	1.0								< 1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0								< 2.0		
Dibromochloromethane	U	2760	µg/kg	10								< 10		
1,2-Dibromoethane	M	2760	µg/kg	5.0								< 5.0		
Chlorobenzene	M	2760	µg/kg	1.0								< 1.0		
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0								< 2.0		
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0			< 1.0	5.1		< 1.0	< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0	6.8		< 1.0	< 1.0		
o-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0	10		< 1.0	< 1.0		
Styrene	M	2760	µg/kg	1.0								< 1.0		

Results - Soil

Client: Eastwood & Partners	Chemtest Job No.:					16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:					380000	380001	380003	380004	380006	380009	380011	380012	380014	
Order No.:	Client Sample Ref.:					TP1	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6	
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):					0.1	1.0	1.5	0.2	0.2	2.6	0.5	0.3	1.4	
	Date Sampled:					16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY		
Determinand	Accred.	SOP	Units	LOD											
Tribromomethane	U	2760	µg/kg	1.0									< 1.0		
Isopropylbenzene	M	2760	µg/kg	1.0									< 1.0		
Bromobenzene	M	2760	µg/kg	1.0									< 1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50									< 50		
N-Propylbenzene	U	2760	µg/kg	1.0									< 1.0		
2-Chlorotoluene	M	2760	µg/kg	1.0									< 1.0		
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									< 1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0									< 1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0									< 1.0		
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									< 1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0									< 1.0		
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0									< 1.0		
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0		
N-Butylbenzene	U	2760	µg/kg	1.0									< 1.0		
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									< 50		
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									< 1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0									< 1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									< 2.0		
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									< 1.0		
N-Nitrosodimethylamine	N	2790	mg/kg	0.50									< 0.50		
Phenol	N	2790	mg/kg	0.50									< 0.50		
2-Chlorophenol	N	2790	mg/kg	0.50									< 0.50		
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.50									< 0.50		
1,3-Dichlorobenzene	N	2790	mg/kg	0.50									< 0.50		
1,4-Dichlorobenzene	N	2790	mg/kg	0.50									< 0.50		
1,2-Dichlorobenzene	N	2790	mg/kg	0.50									< 0.50		
2-Methylphenol	N	2790	mg/kg	0.50									< 0.50		
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.50									< 0.50		
Hexachloroethane	N	2790	mg/kg	0.50									< 0.50		
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.50									< 0.50		
4-Methylphenol	N	2790	mg/kg	0.50									< 0.50		
Nitrobenzene	N	2790	mg/kg	0.50									< 0.50		
Isophorone	N	2790	mg/kg	0.50									< 0.50		
2-Nitrophenol	N	2790	mg/kg	0.50									< 0.50		
2,4-Dimethylphenol	N	2790	mg/kg	0.50									< 0.50		
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.50									< 0.50		
2,4-Dichlorophenol	N	2790	mg/kg	0.50									< 0.50		

Project: 40361 - Hollins Road, Darwin

Client: Eastwood & Partners		Chemtest Job No.:		16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160
Quotation No.:		Chemtest Sample ID.:		380000	380001	380003	380004	380006	380009	380011	380012	380014
Order No.:		Client Sample Ref.:		TP1	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.1	1.0	1.5	0.2	0.2	2.6	0.5	0.3	1.4
		Date Sampled:		16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
		Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD								
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.50							< 0.50	
Naphthalene	N	2790	mg/kg	0.50							< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50							< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.50							< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.50							< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.50							< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50							< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50							< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50							< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50							< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.50							< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.50							< 0.50	
Acenaphthylene	N	2790	mg/kg	0.50							< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.50							< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.50							< 0.50	
Acenaphthene	N	2790	mg/kg	0.50							< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50							< 0.50	
Dibenzofuran	N	2790	mg/kg	0.50							< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.50							< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.50							< 0.50	
Fluorene	N	2790	mg/kg	0.50							< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.50							< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.50							< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50							< 0.50	
Azobenzene	N	2790	mg/kg	0.50							< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.50							< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.50							< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50							< 0.50	
Phenanthrene	N	2790	mg/kg	0.50							< 0.50	
Anthracene	N	2790	mg/kg	0.50							< 0.50	
Carbazole	N	2790	mg/kg	0.50							< 0.50	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50							< 0.50	
Fluoranthene	N	2790	mg/kg	0.50							< 0.50	
Pyrene	N	2790	mg/kg	0.50							< 0.50	
Butylbenzyl Phthalate	N	2790	mg/kg	0.50							< 0.50	
Benzo[a]anthracene	N	2790	mg/kg	0.50							< 0.50	
Chrysene	N	2790	mg/kg	0.50							< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50							< 0.50	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50							< 0.50	

Results - Soil

Client: Eastwood & Partners		Chemtest Job No.:		16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160	16-28160
Quotation No.:		Chemtest Sample ID.:		380000	380001	380003	380004	380006	380009	380011	380012	380014	
Order No.:		Client Sample Ref.:		TP1	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.1	1.0	1.5	0.2	0.2	2.6	0.5	0.3	1.4	
		Date Sampled:		16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	18-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016	
		Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY		
Determinand	Accred.	SOP	Units	LOD									
Benzo[b]fluoranthene	N	2790	mg/kg	0.50								< 0.50	
Benzo[k]fluoranthene	N	2790	mg/kg	0.50								< 0.50	
Benzo[a]pyrene	N	2790	mg/kg	0.50								< 0.50	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50								< 0.50	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50								< 0.50	
Benzo[g,h,i]perylene	N	2790	mg/kg	0.50								< 0.50	
Naphthalene	M	2800	mg/kg	0.10	0.32	< 0.10	< 0.10	0.67	9.4	< 0.10	0.45	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.53	0.32	< 0.10	0.17	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.23	0.13	< 0.10	1.1	5.0	< 0.10	0.40	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	0.21	0.11	< 0.10	1.2	5.4	< 0.10	0.40	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	3.1	2.9	0.30	8.7	51	0.52	4.5	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	0.50	0.45	< 0.10	1.6	12	< 0.10	0.72	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	4.0	3.4	0.48	8.2	83	0.78	4.0	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	3.2	3.0	0.45	7.3	71	1.0	3.5	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	1.2	1.2	< 0.10	3.6	41	0.20	1.3	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	1.2	1.2	< 0.10	3.6	45	0.18	1.1	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	1.4	1.5	< 0.10	4.0	48	0.27	1.4	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.28	0.32	< 0.10	1.3	21	< 0.10	0.29	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	1.1	1.2	< 0.10	3.6	44	0.20	1.4	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.59	0.61	< 0.10	2.1	26	0.12	0.80	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.12	7.0	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.84	0.83	< 0.10	2.1	26	0.19	0.80	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	18	17	< 2.0	50	500	3.5	21	< 2.0	< 2.0
PCB 28	M	2815	mg/kg	0.010									
PCB 52	M	2815	mg/kg	0.010									
PCB 90+101	M	2815	mg/kg	0.010									
PCB 118	M	2815	mg/kg	0.010									
PCB 153	M	2815	mg/kg	0.010									
PCB 138	M	2815	mg/kg	0.010									
PCB 180	M	2815	mg/kg	0.010									
Total PCBs (7 Congeners)	N	2815	mg/kg	0.10									

Client: Eastwood & Partners	Chemtest Job No.:				16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:				380015	380016	380019	380020
Order No.:	Client Sample Ref.:				TP7	TP7	TP8	TP11
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	1.0	0.6	0.5
	Date Sampled:				16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	Fibres/Clumps	-	Fibres/Clumps	-
Asbestos Identification	U	2192	%	0.001	Amosite	No Asbestos Detected	Amosite Chrysotile	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	0.007		0.25	
Total Asbestos	N	2192	%	0.001	0.007		0.25	
Moisture	N	2030	%	0.020	12	13	11	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay
pH	M	2010		N/A	8.8	8.1	10.7	8.7
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.12	0.068	0.34	< 0.010
Total Sulphur	M	2175	%	0.010	0.32	0.070	0.22	0.030
Sulphate (Acid Soluble)	M	2430	%	0.010	0.12	0.070	0.30	0.022
Arsenic	M	2450	mg/kg	1.0	27	12	18	8.5
Cadmium	M	2450	mg/kg	0.10	0.92	0.47	0.62	0.36
Chromium	M	2450	mg/kg	1.0	28	22	20	23
Copper	M	2450	mg/kg	0.50	69	31	30	24
Mercury	M	2450	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	190	41	63	34
Lead	M	2450	mg/kg	0.50	110	51	110	25
Selenium	M	2450	mg/kg	0.20	< 0.20	0.55	< 0.20	0.55
Zinc	M	2450	mg/kg	0.50	210	120	170	70
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20				0.98
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	9.3	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	44	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	220	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	270	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	760	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	5.9	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	86	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	82	< 1.0	< 1.0	< 1.0

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Client: Eastwood & Partners	Chemtest Job No.:				16-28160	16-28160	16-28160	16-28160
Quotation No.:	Chemtest Sample ID.:				380015	380016	380019	380020
Order No.:	Client Sample Ref.:				TP7	TP7	TP8	TP11
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.5	1.0	0.6	0.5
	Date Sampled:				16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	53	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	230	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	990	< 10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0				
Chloromethane	M	2760	µg/kg	1.0				
Vinyl Chloride	M	2760	µg/kg	1.0				
Bromomethane	M	2760	µg/kg	20				
Chloroethane	U	2760	µg/kg	2.0				
Trichlorofluoromethane	M	2760	µg/kg	1.0				
1,1-Dichloroethene	M	2760	µg/kg	1.0				
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0				
1,1-Dichloroethane	M	2760	µg/kg	1.0				
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0				
Bromochloromethane	U	2760	µg/kg	5.0				
Trichloromethane	M	2760	µg/kg	1.0				
1,1,1-Trichloroethane	M	2760	µg/kg	1.0				
Tetrachloromethane	M	2760	µg/kg	1.0				
1,1-Dichloropropene	U	2760	µg/kg	1.0				
Benzene	M	2760	µg/kg	1.0	1.4			< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0				
Trichloroethene	M	2760	µg/kg	1.0				
1,2-Dichloropropane	M	2760	µg/kg	1.0				
Dibromomethane	M	2760	µg/kg	1.0				
Bromodichloromethane	M	2760	µg/kg	5.0				
cis-1,3-Dichloropropene	N	2760	µg/kg	10				
Toluene	M	2760	µg/kg	1.0	1.3			< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10				
1,1,2-Trichloroethane	M	2760	µg/kg	10				
Tetrachloroethene	M	2760	µg/kg	1.0				
1,3-Dichloropropane	U	2760	µg/kg	2.0				
Dibromochloromethane	U	2760	µg/kg	10				
1,2-Dibromoethane	M	2760	µg/kg	5.0				
Chlorobenzene	M	2760	µg/kg	1.0				
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0				
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0			< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0
Styrene	M	2760	µg/kg	1.0				

Client: Eastwood & Partners		Chemtest Job No.:		16-28160	16-28160	16-28160	16-28160
Quotation No.:		Chemtest Sample ID.:		380015	380016	380019	380020
Order No.:		Client Sample Ref.:		TP7	TP7	TP8	TP11
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.5	1.0	0.6	0.5
		Date Sampled:		16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
		Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Tribromomethane	U	2760	µg/kg	1.0			
Isopropylbenzene	M	2760	µg/kg	1.0			
Bromobenzene	M	2760	µg/kg	1.0			
1,2,3-Trichloropropane	N	2760	µg/kg	50			
N-Propylbenzene	U	2760	µg/kg	1.0			
2-Chlorotoluene	M	2760	µg/kg	1.0			
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0			
4-Chlorotoluene	U	2760	µg/kg	1.0			
Tert-Butylbenzene	U	2760	µg/kg	1.0			
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0			
Sec-Butylbenzene	U	2760	µg/kg	1.0			
1,3-Dichlorobenzene	M	2760	µg/kg	1.0			
4-Isopropyltoluene	U	2760	µg/kg	1.0			
1,4-Dichlorobenzene	M	2760	µg/kg	1.0			
N-Butylbenzene	U	2760	µg/kg	1.0			
1,2-Dichlorobenzene	M	2760	µg/kg	1.0			
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50			
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0			
Hexachlorobutadiene	U	2760	µg/kg	1.0			
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			
N-Nitrosodimethylamine	N	2790	mg/kg	0.50			
Phenol	N	2790	mg/kg	0.50			
2-Chlorophenol	N	2790	mg/kg	0.50			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.50			
1,3-Dichlorobenzene	N	2790	mg/kg	0.50			
1,4-Dichlorobenzene	N	2790	mg/kg	0.50			
1,2-Dichlorobenzene	N	2790	mg/kg	0.50			
2-Methylphenol	N	2790	mg/kg	0.50			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.50			
Hexachloroethane	N	2790	mg/kg	0.50			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.50			
4-Methylphenol	N	2790	mg/kg	0.50			
Nitrobenzene	N	2790	mg/kg	0.50			
Isophorone	N	2790	mg/kg	0.50			
2-Nitrophenol	N	2790	mg/kg	0.50			
2,4-Dimethylphenol	N	2790	mg/kg	0.50			
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.50			
2,4-Dichlorophenol	N	2790	mg/kg	0.50			

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Client: Eastwood & Partners		Chemtest Job No.:			16-28160	16-28160	16-28160	16-28160
Quotation No.:		Chemtest Sample ID.:			380015	380016	380019	380020
Order No.:		Client Sample Ref.:			TP7	TP7	TP8	TP11
		Sample Type:			SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.5	1.0	0.6	0.5
		Date Sampled:			16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.50				
Naphthalene	N	2790	mg/kg	0.50				
4-Chloroaniline	N	2790	mg/kg	0.50				
Hexachlorobutadiene	N	2790	mg/kg	0.50				
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.50				
2-Methylnaphthalene	N	2790	mg/kg	0.50				
4-Nitrophenol	N	2790	mg/kg	0.50				
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50				
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50				
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50				
2-Chloronaphthalene	N	2790	mg/kg	0.50				
2-Nitroaniline	N	2790	mg/kg	0.50				
Acenaphthylene	N	2790	mg/kg	0.50				
Dimethylphthalate	N	2790	mg/kg	0.50				
2,6-Dinitrotoluene	N	2790	mg/kg	0.50				
Acenaphthene	N	2790	mg/kg	0.50				
3-Nitroaniline	N	2790	mg/kg	0.50				
Dibenzofuran	N	2790	mg/kg	0.50				
4-Chlorophenylphenylether	N	2790	mg/kg	0.50				
2,4-Dinitrotoluene	N	2790	mg/kg	0.50				
Fluorene	N	2790	mg/kg	0.50				
Diethyl Phthalate	N	2790	mg/kg	0.50				
4-Nitroaniline	N	2790	mg/kg	0.50				
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50				
Azobenzene	N	2790	mg/kg	0.50				
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.50				
Hexachlorobenzene	N	2790	mg/kg	0.50				
Pentachlorophenol	N	2790	mg/kg	0.50				
Phenanthrene	N	2790	mg/kg	0.50				
Anthracene	N	2790	mg/kg	0.50				
Carbazole	N	2790	mg/kg	0.50				
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50				
Fluoranthene	N	2790	mg/kg	0.50				
Pyrene	N	2790	mg/kg	0.50				
Butylbenzyl Phthalate	N	2790	mg/kg	0.50				
Benzo[a]anthracene	N	2790	mg/kg	0.50				
Chrysene	N	2790	mg/kg	0.50				
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50				
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50				

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Client: Eastwood & Partners		Chemtest Job No.:		16-28160	16-28160	16-28160	16-28160
Quotation No.:		Chemtest Sample ID.:		380015	380016	380019	380020
Order No.:		Client Sample Ref.:		TP7	TP7	TP8	TP11
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.5	1.0	0.6	0.5
		Date Sampled:		16-Nov-2016	16-Nov-2016	16-Nov-2016	16-Nov-2016
		Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Benzo[b]fluoranthene	N	2790	mg/kg	0.50			
Benzo[k]fluoranthene	N	2790	mg/kg	0.50			
Benzo[a]pyrene	N	2790	mg/kg	0.50			
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50			
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50			
Benzo[g,h,i]perylene	N	2790	mg/kg	0.50			
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.13	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0
PCB 28	M	2815	mg/kg	0.010		< 0.010	
PCB 52	M	2815	mg/kg	0.010		< 0.010	
PCB 90+101	M	2815	mg/kg	0.010		< 0.010	
PCB 118	M	2815	mg/kg	0.010		< 0.010	
PCB 153	M	2815	mg/kg	0.010		< 0.010	
PCB 138	M	2815	mg/kg	0.010		< 0.010	
PCB 180	M	2815	mg/kg	0.010		< 0.010	
Total PCBs (7 Congeners)	N	2815	mg/kg	0.10		< 0.10	

SOP	Title	Parameters included	Method summary
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44 Aromatics: >C5–C7, >C7–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44 Aromatics: >C5–C7, >C7–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS

SOP	Title	Parameters included	Method summary
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:


customerservices@chemtest.co.uk

Inorganic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)
Arsenic	37
Cadmium	11
Chromium (III)	910
Chromium (VI)	6
Lead	200
Mercury	1.2
Nickel	180
Selenium	250
Copper	2400
Zinc	3700

Organic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	2.3	5.6	13
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Fluorene	170	400	860
Phenanthrene	95	220	440
Anthracene	2400	5400	11000
Fluoranthene	280	560	890
Pyrene	620	1200	2000
Benzo(a)anthracene	7.2	11	13
Chrysene	15	22	27
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	100
Benzo(a)pyrene	2.2	2.7	3.0
Dibenz(a,h)anthracene	0.24	0.28	0.3
Indeno(1,2,3-cd)pyrene	27	36	41
Benzo(g,h,i)perylene	320	340	350
Benzene	0.087	0.17	0.37
Toluene	130	290	660
Ethylbenzene	47	110	260
o-Xylene	60	140	330
m-Xylene	59	140	320
p-Xylene	56	130	310

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Prepared	ET	Checked	CAT	Date	15/02/17	Job No	40361
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Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 6.5	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300


The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010. The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the *'The Code of Good Agricultural Practice for the Protection of Soil'*, MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 *'Concrete in Aggressive Ground'*.

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Appendix 6

Gas Monitoring Results Table of Atmospheric Conditions

Round 1 – 27.01.07 (LED)

Location	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1	1.6 to 0.0 in 13s	0.0	19.5	0	0	993	0.0	2.10	2.75
WS2	2.3 to 0.0 in 8s	3.2	14.7	0	0	992	0.0	2.30	3.00
WS3	0.0	0.4	19.3	0	0	992	0.0	1.55	2.95
WS4	0.0	3.6	13.5	0	0	992	0.0	2.25	2.40
WS5	0.0	2.0	12.5	10	0	995	0.0	Damp at base	1.58
WS6	0.0	0.0	19.5	0	0	994	0.0	0.50	2.50
CP1	0.0	2.2	16.6	0	0	992	0.0	DRY	3.05
CP2	12.4	0.4	16.0	0	0	993	0.0	2.30	3.05
CP3	0.0	3.2	15.3	0	0	992	0.0	2.28	3.15
CP4	0.0	1.3	13.2	0	0	994	0.6 to 0.7	0.90	3.12
CP5	0.0	0.6	12.0	0 to 12	0	992	0.0	1.30	2.70

Concentration equates to Amber 1 classification

Concentration equates to Amber 2 classification

Concentration equates to Red classification

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Round 2 11.02.17 (KLG)

Location	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1	0.0	0.5	20.0	0	0	971	0.0	1.42	2.75
WS2	0.0	0.9	18.1	0	0	971	0.0	2.1	3.00
WS3	0.0	0.8	19.7	0	0	970	0.0	1.47	2.95
WS4	0.0	2.5	13.7	0 to 2	0	972	0.0	0.9	2.40
WS5	0.0	1.0	18.7	8 to 0	0	971	0.0	0.33	1.58
WS6	0.0	2.8	18.3	0	0	971	0.0	0.42	2.50
CP1	0.0	2.1	16.5	0	0	971	0.0	DRY	3.05
CP2	6.0	0.8	15.1	1	0	971	0.0	2.02	3.05
CP3	0.0	1.5	16.6	0	0	970	0.0	1.9	3.15
CP4	0.0	1.0	9.7	0 to 1	0	970	0.0	0.65	3.12
CP5	0.0	0.7	3.5	8	0	970	0.0	0.85	2.70

Concentration equates to Amber 1 classification
Concentration equates to Amber 2 classification
Concentration equates to Red classification

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Round 3 – 15.03.17 (DN)

Monitoring Date 15.03.17	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1	0.0	0.5	19.1	0	0	1009	0.0	1.98	2.75
WS2	0.0	4.9	9.5	0	0	1009	0.0	2.24	3.00
WS3	0.0	0.9	19.1	0	0	1011	0.0	1.48	2.95
WS4	0.0	3.1	11.6	0	0	1011	0.0	2.18	2.40
WS5	0.0	1.5	15.6	0	0	1015	0.0	DRY	1.58
WS6	0.0	4.2	17.5	0	0	1010	0.0	0.36	2.50
CP1	0.0	2.7	16.4	0	0	1009	0.0	DRY	3.05
CP2	6.9	0.9	16.1	0	0	1009	0.0	2.30	3.05
CP3	0.0	3.9	11.1	0	0	1009	0.0	2.21	3.15
CP4	0.0	0.9	8.2	0	0	1011	0.0	0.68	3.12
CP5	Well flooded								2.70

Concentration equates to
Amber 1 classification

Concentration equates to
Amber 2 classification

Concentration equates to
Red classification

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Round 4 – 12.05.17 (DN)

Location	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1	Bung missing							1.45	2.75
WS2	Cover removed and bung missing							2.35	3.00
WS3	0.0	1.5	18.2	0	0	974	0.0	1.71	2.95
WS4	0.0	4.9	8.8	0	0	975	0.0	DRY	2.40
WS5	0.0	2.6	10.2	0	0	977	0.0	DRY	1.58
WS6	0.0	1.7	18.2	0	0	974	0.0	0.48	2.50
CP1	0.0	3.8	17.3	0	0	973	0.0	DRY	3.05
CP2*	15.1	2.0	1.1	0	0	973	0.0	2.82	3.05
CP3	0.0	5.4	11.2	0	0	974	0.0	2.85	3.15
CP4	0.0	1.5	18.1	0	0	973	0.0	0.85	3.12
CP5	0.0	0.1	17.2	0	0	974	0.0	1.45	2.70

Concentration equates to Amber 1 classification
Concentration equates to Amber 2 classification
Concentration equates to Red classification

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Round 5 – 08.06.17 (CM)

Location	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1*	0.0	0.5	20.0	0	0	1000	0.0	1.9	2.75
WS2	Bung missing								3.00
WS3	0.0	0.4	19.9	0	0	1000	0.0	1.6	2.95
WS4	0.0	3.0	14.0	0	0	1000	0.0	1.7	2.40
WS5	0.0	3.0	12.9	0	0	1000	0.0	DRY	1.58
WS6	0.0	1.9	20.0	0	0	1000	0.0	0.50	2.50
CP1	0.0	2.8	17.9	0	0	1000	0.0	DRY	3.05
CP2	7.1	2.0	8.0	0	0	1000	0.0	2.5	3.05
CP3	0.0	4.0	16.0	0	0	1000	0.0	2.6	3.15
CP4	0.0	1.0	15.0	0	0	1000	0.0	0.8	3.12
CP5	0.0	0.4	12.6	0	0	1000	0.0	1.5	2.70

* Bung missing at time of monitoring, bung replaced and monitored at the end

Concentration equates to Amber 1 classification
Concentration equates to Amber 2 classification
Concentration equates to Red classification

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Round 6 – 19.07.17 (DN)

Location	CH ₄ %	CO ₂ %	O ₂ %	CO	H ₂ S	Atmos P. (mb)	Flow (l/hr)	Water Level (mbgl)	Base of Pipe (m)
WS1	Did not monitor – ants nest in well							-	2.75
WS2*	0.0	3.3	18.5	0	0	985	0.0	2.24	3.00
WS3	0.0	1.9	18.0	0	0	987	0.0	1.52	2.95
WS4	0.0	7.1	7.7	0	0	988	0.0	2.12	2.40
WS5	Did not monitor – ants nest in well							-	1.58
WS6	0.0	2.0	17.9	0	0	986	0.0	0.59	2.50
CP1	0.0	4.8	15.7	0	0	986	0.0	Dry	3.05
CP2	8.9	4.6	5.8	0	0	987	0.0	2.33	3.05
CP3*	0.0	1.0	19.3	0	0	985	0.0	2.58	3.15
CP4	0.0	1.7	7.0	0	0	986	0.0	0.81	3.12
CP5**	0.0	1.2	3.0	0	0	987	0.0	1.32	2.70

*Bung missing. Replaced bung and monitored after 15 minutes.


**Well flooded. Drained well and monitored after 15 minutes.

Concentration equates to Amber 1 classification
Concentration equates to Amber 2 classification
Concentration equates to Red classification

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Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (°C)	Weather
06.12.16	1021	Falling	95	5	Cloudy
07.12.16	1020	Rising	91	9	Partly Cloudy
08.12.16	1022	Rising	99	8	Scattered Clouds
09.12.16	1023	Steady	96	8	Light Rain
10.12.16	1021	Steady	96	7	Cloudy
11.12.16	1022	Falling	94	8	Cloudy
12.12.16	1018	Falling	97	5	Cloudy
13.12.16	1017	Falling	97	8	Cloudy
14.12.16	1016	Steady	91	9	Sunny
15.12.16	1015	Rising	92	10	Cloudy
16.12.16	1024	Rising	94	6	Cloudy
17.12.16	1035	Rising	98	4	Sunny / Cloudy
18.12.16	1034	Falling	93	6	Cloudy
19.12.16	1026	Falling	96	6	Cloudy
20.12.16	1016	Falling	89	6	Haze
21.12.16	1015	Rising	83	6	Scattered Clouds
22.12.16	1022	Rising	80	6	Partly Cloudy
23.12.16	1014	Falling	80	7	Mostly Cloudy
24.12.16	1019	Steady	80	8	Scattered Clouds
25.12.16	-	-	88	10	-
26.12.16	1029	Rising	66	8	Scattered Clouds
27.12.16	1042	Rising	86	4	Scattered Clouds
28.12.16	1039	Falling	96	1	Unknown
29.12.16	1034	Falling	93	2	Scattered Clouds
30.12.16	1032	Falling	94	5	Mostly Cloudy
31.12.16	1027	Falling	92	8	Mostly Cloudy
01.01.17	-	-	77	4	-
02.01.17	1031	Falling	76	3	Partly Cloudy
03.01.17	1026	Falling	83	6	Mostly Cloudy
04.01.17	1027	Rising	72	4	Partly Cloudy
05.01.17	1034	Steady	87	-1	Clear
06.01.17	1030	Falling	95	4	Light Rain
07.01.17	1031	Steady	99	7	Fog
08.01.17	1031	Falling	100	7	Mostly Cloudy
09.01.17	1011	Falling	88	7	Mostly Cloudy

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10.01.17	1008	Steady	88	7	Mostly Cloudy
11.01.17	1009	Rising	69	7	Scattered Clouds
12.01.17	1000	Falling	76	4	Mostly Cloudy
13.01.17	1012	Rising	64	4	Scattered Clouds
14.01.17	1020	Rising	82	4	Partly Cloudy
15.01.17	1022	Rising	96	7	Mostly Cloudy
16.01.17	1028	Rising	98	8	Scattered Clouds
17.01.17	1034	Rising	99	8	Light Drizzle
18.01.17	1037	Steady	97	6	Mostly Cloudy
19.01.17	1037	Steady	97	6	Mostly Cloudy
20.01.17	1034	Falling	86	4	Partly Cloudy
21.01.17	1028	Falling	89	2	Mostly Cloudy
22.01.17	1025	Rising	87	1	Unknown
23.01.17	1026	Falling	99	2	Mostly Cloudy
24.01.17	1024	Steady	94	3	Mostly Cloudy
25.01.17	1024	Falling	88	6	Light Cloud/Sunny
26.01.17	1018	Falling	85	1	Cloudy
27.01.17	1008	Falling	82	3	Cloudy
30.01.17	1011	Falling	85	5	Cloudy
31.01.17	1009	Falling	91	5	Cloudy/showers
01.02.17	1006	Falling	96	8	Cloudy/Showers
02.02.17	996	Falling	91	9	Cloudy/showers
03.02.17	986	Rising	81	9	Cloudy/sunny
04.02.17	994	Rising	83	5	Partly Cloudy
05.02.17	1005	Rising	91	3	Overcast
06.02.17	1014	Falling	89	2	Light Rain
07.02.17	1013	Rising	85	6	Mostly Cloudy
08.02.17	1027	Rising	87	3	Overcast
09.02.17	1029	Falling	77	2	Overcast
10.02.17	1026	Steady	77	2	Mostly Cloudy
11.02.17	1026	Steady	86	2	Light Rain
12.02.17	1026	Steady	85	3	Light Rain
13.02.17	1023	Falling	77	6	Unknown
14.02.17	1023	Rising	79	6	Partly Cloudy
15.02.17	1025	Steady	90	8	Overcast
16.02.17	1025	Steady	91	8	Scattered Clouds
17.02.17	1025	Falling	86	9	Partly Cloudy

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18.02.17	1021	Steady	90	9	Scattered Clouds
19.02.17	1020	Falling	96	8	Mostly Cloudy
20.02.17	1015	Steady	96	8	Mostly Cloudy
21.02.17	1010	Falling	96	7	Light Drizzle
22.02.17	1004	Falling	92	8	Partly Cloudy
23.02.17	991	Rising	83	6	Mostly Cloudy
24.02.17	1015	Falling	78	6	Partly Cloudy
25.02.17	1004	Steady	92	7	Scattered Clouds
26.02.17	996	Falling	85	8	Mostly Cloudy
27.02.17	983	Falling	84	4	Scattered Clouds
28.02.17	984	Rising	91	4	Light Rain Showers
01.03.17	995	Falling	84	6	Scattered Clouds
02.03.17	1006	Falling	77	6	Partly Cloudy
03.03.17	993	Falling	91	6	Light Rain
04.03.17	984	Steady	80	8	Scattered Clouds
05.03.17	988	Rising	93	5	Light Rain
06.03.17	1005	Rising	87	7	Partly Cloudy
07.03.17	1014	Falling	77	6	Partly Cloudy
08.03.17	1011	Rising	91	8	Partly Cloudy
09.03.17	1021	Rising	85	6	Partly Cloudy
10.03.17	1021	Falling	89	8	Mostly Cloudy
11.03.17	1015	Falling	88	10	Mostly Cloudy
12.03.17	1016	Rising	94	8	Mostly Cloudy
13.03.17	1028	Steady	91	8	Mostly Cloudy
14.03.17	1029	Rising	86	9	Partly Cloudy
15.03.17	1031	Falling	80	9	Clear
16.03.17	1019	Steady	87	8	Mostly Cloudy
17.03.17	1010	Falling	88	8	Mostly Cloudy
18.03.17	1007	Steady	97	9	Mostly Cloudy
19.03.17	1002	Steady	94	10	Partly Cloudy
20.03.17	999	Rising	85	8	Mostly Cloudy
21.03.17	1004	Falling	69	6	Scattered Clouds
22.03.17	1004	Rising	93	4	Light Rain
23.03.17	1026	Rising	71	8	Clear
24.03.17	1033	Rising	51	12	Clear
25.03.17	1031	Rising	42	13	Clear
26.03.17	1026	Falling	61	13	Partly Cloudy

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27.03.17	1022	Falling	70	11	Cloudy
28.03.17	1017	Falling	100	6	Overcast
29.03.17	1016	Rising	94	11	Light Rain
30.03.17	1015	Falling	89	13	Light Cloud
31.03.17	1004	Rising	90	11	Light Rain Shower
01.04.17	1007	Rising	89	9	Light Rain Shower
02.04.17	1022	Rising	87	8	Light Cloud
03.04.17	1021	Steady	56	13	Sunny Intervals
04.04.07	1027	Rising	87	7	Light Cloud
05.04.17	1031	Steady	79	8	Light Cloud
06.04.17	1030	Falling	80	8	Light Cloud
07.04.17	1027	Falling	70	8	Mostly Cloudy
08.04.17	1021	Falling	70	8	Clear
09.04.17	1018	Rising	82	10	Haze
10.04.17	1027	Falling	75	9	Mostly Cloudy
11.04.17	1024	Falling	75	9	Cloudy
12.04.17	1015	Rising	76	8	Rain Showers
13.04.17	1017	Falling	75	8	Mostly Cloudy
14.04.17	1014	Rising	78	8	Rain Showers
15.04.17	1018	Rising	71	8	Scattered Clouds
16.04.17	1020	Falling	85	9	Scattered Clouds
17.04.17	1025	Rising	77	8	Scattered Clouds
18.04.17	1034	Steady	62	5	Partly Cloudy
19.04.17	1036	Falling	72	8	Mostly Cloudy
20.04.17	1035	Falling	90	10	Mostly Cloudy
21.04.17	1031	Falling	85	11	Mostly Cloudy
22.04.17	1030	Falling	66	8	Partly Cloudy
23.04.17	1025	Falling	71	8	Partly Cloudy
24.04.17	1015	Falling	67	8	Scattered Clouds
25.04.17	1015	Rising	70	3	Partly Cloudy
26.04.17	1020	Falling	61	8	Sunny Intervals
27.04.17	1017	Rising	76	9	Rain Showers
28.04.17	1018	Falling	64	10	Sunny Intervals
29.04.17	1013	Falling	67	12	Mostly Cloudy
30.04.17	1001	Falling	52	12	Partly Cloudy
01.05.17	1007	Rising	61	13	Partly Cloudy
02.05.17	1022	Rising	71	11	Scattered Clouds

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03.05.17	1027	Steady	75	11	Sunny Intervals
04.05.17	1027	Steady	68	9	Sunny
05.05.17	1026	Falling	70	10	Sunny
06.05.17	1016	Rising	75	8	Mostly Cloudy
07.05.17	1022	Rising	76	10	Sunny Intervals
08.05.17	1029	Falling	75	10	Mostly Sunny
09.05.17	1024	Falling	70	9	Sunny Intervals
10.05.17	1011	Falling	70	11	Mostly Sunny
11.05.17	1001	Falling	63	15	Sunny Intervals
12.05.17	1000	Falling	72	15	Sun/Rain Showers
13.05.17	1006	Falling	76	14	Sunny Intervals
14.05.17	1017	Steady	65	13	Mostly Sunny
15.05.17	1017	Rising	93	15	Rain Showers
16.05.17	1018	Steady	88	15	Rain Showers
17.05.17	1018	Falling	74	12	Mostly Cloudy
18.05.17	1011	Steady	74	13	Sunny Intervals
19.05.17	1010	Rising	72	12	Sun/Rain Intervals
20.05.17	1016	Rising	67	13	Sun/Rain Intervals
21.05.17	1023	Falling	70	15	Sunny Intervals
22.05.17	1015	Rising	70	17	Mostly Cloudy
23.05.17	1021	Rising	75	14	Partly Cloudy
24.05.17	1026	Falling	89	16	Mostly Cloudy
25.05.17	1022	Falling	66	20	Partly Cloudy
26.05.17	1016	Falling	47	22	Clear
27.05.17	1008	Rising	73	20	Scattered Clouds
28.05.17	1018	Falling	79	14	Mostly Cloudy
29.05.17	1012	Rising	89	14	Mostly Cloudy
30.05.17	1018	Rising	83	12	Rain Intervals
31.05.17	1023	Falling	62	16	Sunny
01.06.17	1019	Falling	69	17	Cloudy
02.06.17	1015	Steady	78	16	Cloudy
03.06.17	1014	Steady	66	15	Mostly Sunny
04.06.17	1015	Falling	67	13	Mostly Sunny
05.06.17	1002	Rising	85	12	Mostly Rainy
06.06.17	1005	Rising	67	13	Rainy Showers
07.06.17	1011	Falling	69	12	Mostly Cloudy
08.06.17	1005	Rising	87	13	Rain

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09.06.17	1011	Falling	69	16	Cloudy
10.06.17	1009	Steady	85	18	Rain
11.06.17	1009	Rising	73	16	Rain Showers
12.06.17	1015	Rising	75	13	Mostly Cloudy
13.06.17	1019	Falling	73	15	Mostly Cloudy
14.06.17	1015	Falling	68	20	Mostly Cloudy
15.06.07	1012	Rising	69	15	Sunny Intervals
16.06.17	1021	Rising	79	14	Mostly Cloudy
17.06.17	1027	Falling	70	20	Sunny
18.06.17	1024	Falling	60	22	Sunny
19.06.17	1021	Steady	65	22	Sunny
20.06.17	1021	Falling	62	19	Sunny
22.06.17	1010	Rising	88	15	Overcast
23.06.17	1011	Steady	94	15	Rain
26.06.17	1015	Falling	67	15	Partly Cloudy
27.06.17	1008	Falling	94	12	Mostly Cloudy
28.06.17	1001	Falling	88	13	Light Rain
29.06.17	995	Rising	82	13	Mostly Cloudy
30.06.17	1003	Rising	94	14	Mostly Cloudy
03.07.17	1018	Rising	88	16	Mostly Cloudy
04.07.17	1019	Falling	94	14	Mostly Cloudy
05.07.17	1019	Steady	88	16	Scattered Clouds
06.07.17	1016	Falling	83	18	Partly Cloudy
07.07.17	1015	Steady	88	17	Mostly Cloudy
10.07.17	1008	Rising	94	15	Light rain showers
11.07.17	1007	Steady	94	12	Light rain showers
12.07.17	1016	Rising	67	15	Partly cloudy
13.07.17	1020	Falling	82	17	Clear
14.07.17	1018	Rising	72	15	Scattered Clouds
17.07.17	1025	Steady	68	16	Clear
18.07.17	1020	Falling	72	19	Sunny Intervals
19.07.17	1007	Falling	87	17	Light rain shower
20.07.17	1008	Rising	69	13	Light Cloud
21.07.17	1005	Steady	87	14	Heavy Rain
22.07.17	1006	Rising	79	15	Partly Cloudy
23.07.17	1012	Rising	78	16	Partly Cloudy
24.07.17	1017	Falling	75	17	Partly Cloudy

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25.07.17	1015	Falling	84	16	Mostly Cloudy
26.07.17	1001	Steady	86	16	Scattered Clouds
27.07.17	1001		72	14	Partly Cloudy

Bold indicates monitoring visit.

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<p style="text-align: center;"> EOP Eastwood & Partners <small>CONSULTING ENGINEERS</small> St Andrew's House 23 Kingfield Road Sheffield S11 9AS Tel: (0114) 2554554 Fax: (0114) 2554330 </p>	<p style="text-align: center;"> GLEESON DEVELOPMENTS LTD HOLLINS ROAD, DARWEN ATMOSPHERIC CONDITIONS </p>
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