Trial it Log

Logged AW **Chec ed** AP	**Start** 22/10/2014 **End** 22/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
0.50	ES 1		1 (MADE GROUND) Soft dark grey slightly sandy gravelly CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick and concrete. Sand is fine to coarse. Cobbles are subangular of sandstone and brick. Ooccasional plastic and metal fragments. (VO = 2,1)	(0.60)		
			2 (MADE GROUND) Orangish brown occasionally stained black gravelly sandy SILT with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, clinker and brick. Sand is fine to coarse moderately of ash. Cobbles are subangular of brick and sandstone. (VO = 2,1)	0.60 (1.00)		
			3 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker. Sand is fine to coarse of ash. (VO = 2,1)	1.60 (1.30)		
			4 (MADE GROUND) Soft to firm light grey mottled orange moderately stained black sandy gravelly CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional clinker. Sand is fine to coarse. (VO = 3,3)	2.90 (2.10)		
epth	**Type o**	**Records ate**	EXPLORATORY HOLE ENDS AT 5.00 m			

roundwater Entries

o Struc m **ost Stri e Behaviour**

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 22/10/2014 **End** 22/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	
4.50	ES 5	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Soft to firm dark brown moderately stained black sandy gravelly CLAY with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, concrete and brick. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and brick. Occasional plastic and metal fragments. Moderate roots, rootlets and wood fragments. (VO = 3,2)	(2.00)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL frequently of clinker and occasionally of sandstone and brick. Sand is fine to coarse of ash. (VO = 1,1)	2.00 (1.40)		
3 Soft to stiff greyish brown moderately stained black and orange slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. (VO = 3,2)	3.40 (1.00)	1	
4 Greyish brown moderately stained black gravelly slightly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subrounded of sandstone. (VO = 3,2)	4.40 (0.60)		
EXPLORATORY HOLE ENDS AT 5.00 m			

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	3.50	Seepage

epth Related Remar s
From to m

Stability Unstable
Shoring None
eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

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Trial Pit
T E
Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 31/10/2014 **End** 31/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machne excavated trial pit from GL to 3.2m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Dark greyish brown moderately stained black gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional brick. Cobbles are subangular to subrounded of sandstone and occasional brick. (VO = 2,2)	(0.50) 0.50		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick, sandstone and slag. Sand is fine to coarse of ash. (VO= 1,1)	(1.30) 1.80		
3 Firm light grey mottled orange sandy CLAY. Sand is fine to coarse. (VO = 0,0)	(1.40) 3.20		
EXPLORATORY HOLE ENDS AT 3.20 m — 3.20 m Grey weathered bedrock.			

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
None observed (see Key Sheet)		

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 31/10/2014 **End** 31/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.3m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
1.00	ES 1	
2.00	ES 2	
3.00	ES 3	
4.00	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional brick. Cobbles are subangular to subrounded of sandstone and occasional brick.	(0.30) 0.30		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick, sandstone and slag. Sand is fine to coarse of ash. (VO = 1,1)	(2.00) 2.30		
3 Soft to firm light grey mottled orange occasionally stained black sandy CLAY. Sand is fine to coarse. (VO = 2,1)	(2.00)		
EXPLORATORY HOLE ENDS AT 4.30 m 4.30 m Grey weathered bedrock.	4.30		

epth	Type o	Records ate

roundwater Entries
o Struc m **ost Stri e Behaviour**
None observed (see Key Sheet)

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

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Trial Pit
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Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 31/10/2014 **End** 31/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.4m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown moderately stained black gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional brick. Cobbles are subangular to subrounded of sandstone and occasional brick. (VO = 2,1)	(0.60)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone, brick and slag. Sand is fine to coarse of ash. (VO = 1,1)	0.60 (1.50)		
3 Soft to firm light grey mottled orange sandy CLAY. Sand is fine. (VO = 0,0)	2.10 (1.10)		
4 Orangish brown gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 1,1)	3.20 (1.20)		
EXPLORATORY HOLE ENDS AT 4.40 m 4.40 m Grey weathered bedrock.	4.40		

epth	Type o	Records ate

roundwater Entries

o Struc m **ost Stri e Behaviour**

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

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Trial Pit

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Sheet 1 of 1

Trial it Log

Logged AW **Chec ed** AP	**Start** 31/10/2014 **End** 31/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.3m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Orange slightly gravelly silty, fine to coarse SAND. Gravel is subangular, fine to coarse of sandstone and occasional brick. (VO = 1,1)	(0.50)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick, sandstone and slag. Sand is fine to coarse of ash. (VO = 2,2)	0.50 (2.40)		
2.30 m Metal pipe (300mm diameter).			
3 Soft to firm light grey mottled orange occasional stained black sandy CLAY. Sand is fine. (VO = 2,2)	2.90 (1.40)		
EXPLORATORY HOLE ENDS AT 4.30 m 4.30 m Grey weathered bedrock.	4.30		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

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Trial Pit

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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 23/10/2014 **End** 23/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.00	ES 4	
4.00	ES 5	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown occasionally stained black gravelly clayey, fine to coarse SAND occasionally of ash with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick, concrete and occasional clinker. Cobbles are subangular to subrounded of sandstone and brick. (VO = 2,2) 0.00-4.50 m Vertical pillar of concrete and rebar running through full depth of pit, 400mm diameter.	(1.10)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick and sandstone. (VO = 1,1)	1.10 (1.00)		
3 (MADE GROUND) Soft yellowish brown CLAY. Distinct hydrocarbon odour. (VO = 0,5)	2.10 (0.50)		
4 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick, concrete and sandstone. Sand is fine to coarse. (VO = 1,1)	2.60 (0.50)		
5 (MADE GROUND) Soft to firm grey mottled yellowish brown frequently stained black slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of sandstone and clinker. Sand is fine to coarse. (VO = 4,4)	3.10 (1.40)		
EXPLORATORY HOLE ENDS AT 4.50 m	4.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri	e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 23/01/2004 **End** 23/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
0.50	ES 1		1 (MADE GROUND) Dark grey frequently stained black gravelly clayey, fine to coarse SAND of ash with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick, concrete and rare clinker. Cobbles are subangular of sandstone and brick. Occasional metal and plastic fragments. (VO = 3,3)	(0.90)		
			2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick and sanstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular of brick, concrete and chalk. (VO = 1,1)	0.90 (1.10)		
1.50	ES 2					
			3 (MADE GROUND) White CHALK. (VO = 0,0)	2.00		
			4 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick and sanstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular of brick, concrete and chalk. (VO = 1,1)	2.20 (0.30) 2.50		
2.50	ES 3		5 (MADE GROUND) Soft yellow sandy CLAY. Sand is fine to coarse. Occasional roots and wood fragments. Occasional terracotta ppei. Distinct hydrocarbon odour. (VO = 0,5)	2.70 (0.60)		
			6 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick and sanstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular of brick, concrete and chalk. (VO = 1,1)		1	
3.30	ES 4		3 Soft to firm light grey mottled yellowish brown frequently stained black slightly sandy slightly gravelly CLAY. Gravel is subangular, fine to coarse of sandstone. Sand is fine. (VO = 4,5)	3.30 (1.70)		
4.50	ES 5					
epth	**Type o**	**Records ate**	EXPLORATORY HOLE ENDS AT 5.00 m			

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	3.30	Steady flow of water, mixing with black hydrocarbon leaving water black.

epth Related Remar s
From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Sheet 1 of 1

Trial it Log

Logged AW **Chec ed** AP	**Start** 21/10/2014 **End** 21/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Soft dark grey frequently stained black sandy gravelly CLAY with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick and clinker. Sand is fine to coarse occasionally of ash. Cobbles are subangular of sandstone and brick. (VO = 3,3)	(0.50)		
2 (MADE GROUND) Grey CONCRETE. Aggregate is subangular meduim gravel of flint. (VO = 0,0)	0.50 (0.30) 0.80		
3 (MADE GROUND) Black gravelly, fine to coarse SAND frequently of ash with medium cobble content. Gravel is subangular, fine to coarse frequently of clinker, brick, concrete and sandstone. Cobbles are subangular of brick and clinker. Frequent cobble and boulder sized pockets of soft to firm greyish brown frequently stained black clay. Occasional metal and plastic fragments. (VO = 3,4)	(2.50)		
4 (MADE GROUND) Greyish brown gravelly, fine to coarse SAND occasionally of ash with low cobble content. Gravel is subangular, fine to coarse of sandstone and clinker. Cobbles are subangular of sandstone and brick. (VO = 2,2)	3.30 (0.90)	1	
4.20 m Bedrock. EXPLORATORY HOLE ENDS AT 4.20 m	4.20		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.00	Seepage, surface has hydrocarbon sheen.

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Sunny

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit
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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 23/10/2014 **End** 23/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Dark brown frequently stained black gravelly clayey, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick and concrete. Cobbles are subangular of sandstone and brick. (VO = 4,3)	(0.50)		
0.50	ES 1		2 (MADE GROUND) Grey slightly sandy subangular, fine to medium GRAVEL of sandstone. Sand is fine to coarse. (VO = 0,0)	0.50 0.70		
			3 (MADE GROUND) CONCRETE. (VO = 0,0)	(0.30) 1.00		
1.50	ES 2		4 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker, occasional brick and sandstone. Sand is fine to coarse of ash. Rare boulder sized pockets of soft yellow clay. Clay has strong chemical odour (VO = 1,1) becoming (VO = 0,5) for clay pockets.			
2.50	ES 3			(3.50)		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 4.50 m	4.50		
epth	**Type o**	**Records ate**				

roundwater Entries
o Struc m **ost Stri e Behaviour**
None observed (see Key Sheet)

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.
Scale 1:25

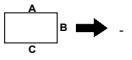
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Trial Pit
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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 30/10/2014 **End** 30/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m 	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
2.00	ES 2	
3.50	ES 3	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Brown sandy silty subangular, fine to medium GRAVEL of sandstone. Sand is fine to coarse. (VO = 0,0)	(0.90)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL frequently of clinker and occasionally of sandstone, sandstone and brick with low cobble content. Sand is fine to coarse frequently of ash. Cobbles are subangular of sandstone. (VO = 2,2)	0.90 (2.60)		
3.20 m Power cable (dead).			
EXPLORATORY HOLE ENDS AT 3.50 m	3.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 30/10/2014 **End** 30/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 1.4m Terminated at 1.4m due to pit being on slope and having high cobble content, unabling the pit to be progressed.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Dark brown occasionally stained black slightly sandy silty subangular to subrounded, fine to coarse GRAVEL of brick, sandstone and concrete with medium cobble content and occasional boulder content. Sand is fine. Cobbles are subangular to subrounded of sandstone and brick. Boulders are subangular of sandstone. (VO = 1,1)	(1.40)		
1.00	ES 1					
			EXPLORATORY HOLE ENDS AT 1.40 m	1.40		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 30/10/2014 **End** 30/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 1.2m Terminated on concrete.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Dark brown gravelly silty, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and brick. Cobbles are subangular of sandstone and brick. Moderate roots and rootlets. (VO = 0,0)	(0.50)		
0.50	ES 1		2 (MADE GROUND) Red gravelly, fine to coarse SAND with low cobble content. Gravel is red subangular, fine to coarse of sandstone and brick. Cobbles are subangular of sandstone and brick. (VO = 0,0)	0.50 (0.50)		
1.00	ES 2		3 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker, occasional brick and sandstone. Sand is fine to coarse of ash. (VO = 0,0)	1.00		
			1.20 m Concrete. EXPLORATORY HOLE ENDS AT 1.20 m	1.20		
epth	**Type o**	**Records ate**				

roundwater Entries
o Struc m **ost Stri e Behaviour**
None observed (see Key Sheet)

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.
Scale 1:25

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Trial Pit
T E
Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 30/10/2014 **End** 30/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated at maximum reach of excavator, restricted due to road.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional brick, sandstone and slag. Sand is fine to coarse of ash. (VO = 1,1)			
1.00	ES 1					
2.00	ES 2			(4.50)		
3.00	ES 3					
4.00	ES 4					
			EXPLORATORY HOLE ENDS AT 4.50 m	4.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
None observed (see Key Sheet)		

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 29/10/2014 **End** 29/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 0.5m Terminated on concrete base.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Greyish dark brown moderately stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone, brick and concrete with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 3,3)	(0.50)		
0.50	ES 1		EXPLORATORY HOLE ENDS AT 0.50 m 0.50 m Concrete base.	0.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 29/10/2014 **End** 29/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
1.00	ES 1	
2.00	ES 2	
3.00	ES 3	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown frequently stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 4,3)	(1.10)		
2 (MADE GROUND) Grey subangular, fine to medium GRAVEL of sandstone and brick. Frequent red brick fragments. (VO = 1,1) 1.40 m Metal pipe (50mm diameter).	1.10 (0.50)		1
3 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone and brick. Sand is fine to coarse of ash. (VO = 1,1)	1.60 (2.90)		
EXPLORATORY HOLE ENDS AT 4.50 m	4.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	1.40	Seepage

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit
T E
Sheet 1 of 1

Trial it Log

Logged AW **Chec ed** AP	**Start** 29/10/2014 **End** 29/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.4m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown moderately stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 3,3)	(1.90)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker, brick and occasional sandstone. Sand is fine to coarse of ash. (VO = 1,1)	1.90 (2.50)		
3.00 m Metal cables and pipe.			
EXPLORATORY HOLE ENDS AT 4.40 m	4.40		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

Logged AW **Chec ed** AP	**Start** 29/10/2014 **End** 29/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
1.00	ES 1	
2.00	ES 2	
3.00	ES 3	
4.00	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown moderatly stained black sandy clayey subangular, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and brick. (VO = 3,2)	(2.10)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone and brick. Sand is fine to coarse of ash. Occasional boulder sized pockets of soft grey frequently stained black clay. (VO = 1,1) becoming (VO = 5,5) in black clay pockets.	2.10 (2.90)		
EXPLORATORY HOLE ENDS AT 5.00 m			1

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.20	Seepage mixing with hydrocarbon product water is bl ck with strong hydrocarbon sheen and odour.

epth Related Remar s
From to m

Stability Unstable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 30/10/2014 **End** 30/10/2014	**Equipment ethods and Remar s** Komatsu PC210 machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Greyish dark brown moderately stained black sandy clayey subangular, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and occasional brick. (VO = 2,2)	(1.60)		
1.00	ES 1					
			2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker, occasional brick and sandstone. Sand is fine to coarse of ash. Occasional wood fragments. Rare rubber and metal cables. Localised boulder sized pockets of soft yellow clay with a strong chemical odour. (VO = 1,1)	1.60		
2.00	ES 2					
3.00	ES 3			(2.90)		
4.50	ES 4		3 Soft to firm yellowish grey frequently stained black CLAY. Visible free product. (VO = 5,5)	4.50	1	
				(0.50)		
epth	**Type o**	**Records ate**	EXPLORATORY HOLE ENDS AT 5.00 m			

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.50	Seepage, surface has a strong hydrocarbon sheen and odour.

epth Related Remar s
From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 31/10/2014 **End** 31/10/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated due to collapse.	**imensions and Orientation** Width 1.50 m Length 3.00 m A / B / C	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown moderately stained black sandy clayey subangular, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 2,1)	(1.20)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone, brick and slag. Sand is fine to coarse of ash. Frequent planks of wood. Occasional boulder sized pockets of soft yellow clay with a strong chemical odour. (VO = 1,1) 1.20-1.70 m Moderate roots and rootlets. 1.40 m Metal pipe and 3 No. power cables (dead).	1.20 (1.90)		
3 Soft to firm grey mottled orange frequently stained black sandy CLAY. Sand is fine to coarse. (VO = 5,5)	3.10 (1.40)		
EXPLORATORY HOLE ENDS AT 4.50 m	4.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	3.10	Seepage, fast flowing water, surface has black hydrocarbon sheen and strong odour.

epth Related Remar s
From to m

Stability Unstable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

Logged AW **Chec ed** AP	**Start** 13/11/2014 **End** 13/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated due to water ingress.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
1.00	ES 1	
2.00	ES 2	
3.00	ES 3	
4.00	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Greyish dark brown occasionally stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with low cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and brick. Occasional metal and plastic waste. (VO = 2,2)	(1.70)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone, brick and slag. Sand is fine to coarse of ash. Boulder sized pockets of soft yellow clay with a strong chemical odour. (VO = 2,2)	1.70 (1.60)		
3 Soft to firm grey mottled orange frequently stained black sandy CLAY. Sand is fine to coarse. (VO = 4,4)	3.30 (1.20)		1
EXPLORATORY HOLE ENDS AT 4.50 m	4.50		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.20	Seepage, flast flowing, heavily stained black, strong odour.

epth Related Remar s

From to m

Stability Unstable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Trial it Log

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 2.5m Terminated on bedrock.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
epth	**Type o**	**Records ate**

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Dark brown sandy subangular to subrounded, fine to coarse GRAVEL of sandstone, clinker and occasional brick with low cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and moderate brick. Occasional metal pipe. Occasional rootlets and large logs. (VO = 1,1)	(1.00)		
2 (MADE GROUND) Dark blackish brown sandy subangular to subrounded, fine to coarse GRAVEL of sandstone, clinker and occasional brick with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone, brick and occasional ceramic pipe. Occasional pockets of yellow clay. (VO = 5,1)	1.00 (1.50)		
EXPLORATORY HOLE ENDS AT 2.50 m — 2.50 m Bedrock.	2.50		1

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	2.50	Slight seepage.

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit
T E
Sheet 1 of 1

Trial it Log

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Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated due to water ingress.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

epth *Level* Thic ness	escription	Legend	Bac fill Instruments
(1.50)	1 (MADE GROUND) Dark greyish brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and brick. Occasional rootlets and ceramics. (VO = 2,1)		
1.50 (1.50)	2 (MADE GROUND) Dark blackish brown sandy subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional rootlets. Rare plastic fragments. Occasional pockets of yellow clay. (VO = 1,1)		
3.00 (1.50)	3 (MADE GROUND) Firm grey mottled orange with moderately stained black sandy gravelly CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional rootlets. (VO = 5,2)	1	
4.50	EXPLORATORY HOLE ENDS AT 4.50 m		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.00	Groundwater.

epth Related Remar s
From to m

Stability Stable

Shoring None

eather Cloudy,windy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Trial it Log

ESG Environmental Scientifics Group

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

Strata

epth	Type o	ate Records	escription	epth *Level* Thic ness	Legend	Bac fill Instruments
			1 (MADE GROUND) Dark brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional rootlets. Occasional ceramics. (VO = 1,2)	(0.50)		
0.50	ES 1			0.50		
			2 (MADE GROUND) Black sandy subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional ceramics. Occasional boulder size pockets of yellow moderately black stained clay. (VO = 3,1)	(2.00)		
1.50	ES 2					
2.50	ES 3		3 (MADE GROUND) Grey mottled orange moderately stained black sandy gravelly CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. Occasional ceramics. (VO = 5,2)	2.50		
3.50	ES 4			(2.50)		
4.50	ES 5					
epth	**Type o**	**Records ate**	EXPLORATORY HOLE ENDS AT 5.00 m			

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	3.00	Some seepage

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

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Scale 1:25

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Trial Pit
T E
Sheet 1 of 1

Trial it Log

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	
4.50	ES 5	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Dark brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone with medium cobble content. Sand is fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional rootlets and branches. (VO = 2,1)	(0.50)		
2 (MADE GROUND) Black mottled grey sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and clinker and occasional brick with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional boulder size pockets of yellow clay. (VO = 2,2)	0.50 (2.50)		
3 Dark blackish brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. Occasional boulder size pockets of yellow clay. (VO = 5,2)	3.00 (2.00)		
EXPLORATORY HOLE ENDS AT 5.00 m			

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
None observed (see Key Sheet)		

epth Related Remar s

From to m

Stability Stable

Shoring None

eather Cloudy

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Trial it Log

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.60 m Length 3.50 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.30	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	
4.50	ES 5	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Dark brown clayey sandy subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and occasional brick. Occasional rootlets. (VO = 2,1)	(0.30) 0.30		
2 Black sandy subangular to subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. Moderate boulder size pockets of yellow clay. (VO = 2,2)	(2.20)		
3 Dark grey frequently stained black sandy gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse of ash. Occasional rootlets and branches. (VO = 2,2)	2.50 (2.50)		
EXPLORATORY HOLE ENDS AT 5.00 m			

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From	to m

Stability Stable

Shoring None

eather Heavy rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

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Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.30	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	
4.50	ES 5	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Dark brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(0.40) 0.40		
2 Black clayey sandy subangular to subrounded, fine to coarse GRAVEL of sandstone and low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. (VO = 3,1)	(2.10) 2.50		
3 Grey mottled orange frequently stained black sandy gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse of ash. Occasional rootlets. Boulder size pockets of yellow clay. (VO = 5,1)	(2.50)		
EXPLORATORY HOLE ENDS AT 5.00 m			

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour

None observed (see Key Sheet)

epth Related Remar s

From	to	m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged SP **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated due to water ingress.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
1.50	ES 2	
2.50	ES 3	
3.50	ES 4	

Strata

epth *Level* Thic ness	escription	Legend	Bac fill Instruments
(0.50)	1 (MADE GROUND) Dark brown sandy subangular to subrounded, fine to coarse GRAVEL with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone, clinker and occasional brick. Occasional rootlets, branches and logs. (VO = 1,1)		
0.50			
(3.00)	2 (MADE GROUND) Black mottled orange sandy subangular to subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone and brick. Occasional rootlets and plastic fragments. Occasional boulder sized pockets of yellow clay. (VO = 1,1)		
3.50			
(1.00)	3 Dark grey mottled orange moderately stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse of ash. Cobbles are subangular to subrounded of sandstone. (VO = 5,2)		
4.50	EXPLORATORY HOLE ENDS AT 4.50 m		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.50	Water ingress.

epth Related Remar s
From to m

Stability Stable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 4.6m Terminated due to water ingress.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
0.50	ES 1	
2.00	ES 2	
3.00	ES 3	
4.00	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Brown slightly sandy slightly gravelly SILT with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional brick. Sand is fine. Cobbles are subangular of sandstone and brick. (VO = 0,0)	(0.60)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional burnt sandstone, brick and slag. Sand is fine to coarse of ash. (VO = 2,2)	0.60 (3.10)		
3 (MADE GROUND) Soft grey frequently stained black gravelly sandy CLAY. Gravel is subangular, fine to coarse of sandstone and clinker. Sand is fine to coarse of ash. (VO = 5,5)	3.70 (0.90)	1	
EXPLORATORY HOLE ENDS AT 4.60 m	4.60		

epth	Type o	Records ate

roundwater Entries

o	Struc m	ost Stri e Behaviour
1	4.30	Seepage, fast flowing, heavily stained black, strong odour.

epth Related Remar s
From to m

Stability Unstable

Shoring None

eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit

T E

Sheet 1 of 1

Trial it Log

ESG Environmental Scientifics Group

Logged AW **Chec ed** AP	**Start** 11/11/2014 **End** 11/11/2014	**Equipment ethods and Remar s** Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	**imensions and Orientation** Width 1.50 m Length 3.00 m	**round Level** - **Coordinates** - **ational rid** - **Chainage**

Samples and Tests

epth	Type o	ate Records
1.00	ES 1	
2.00	ES 2	
3.00	ES 3	
4.00	ES 4	

Strata

escription	epth *Level* Thic ness	Legend	Bac fill Instruments
1 (MADE GROUND) Grey frequently stained black sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick with low cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone and brick. (VO = 3,3)	(1.10)		
2 (MADE GROUND) Black sandy subangular, fine to coarse GRAVEL of clinker and occasional sandstone, brick and slag. Sand is fine to coarse of ash. (VO = 2,2)	1.10 (3.90)		
EXPLORATORY HOLE ENDS AT 5.00 m			

epth | **Type o** | **Records ate**

roundwater Entries
o Struc m | **ost Stri e Behaviour**
None observed (see Key Sheet)

epth Related Remar s
From to m

Stability Stable
Shoring None
eather Rain

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25

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Trial Pit
T E
Sheet 1 of 1

Appendix C. Laboratory Analytical Results – Ground Investigation

ALcontrol Laboratories

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: mkt@alcontrol.com
Website: www.alcontrol.com

Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

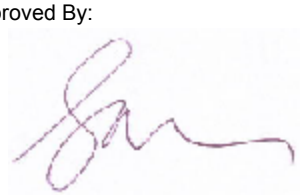
Date:	21 November 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141104-40
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	292912

We received 36 samples on Tuesday November 04, 2014 and 36 of these samples were scheduled for analysis which was completed on Friday November 21, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10314013	IP1078		0.50	28/10/2014
10314017	IP1078		1.50	28/10/2014
10314023	IP1078		2.50	28/10/2014
10313988	IP1079		0.50	28/10/2014
10313993	IP1079		1.50	28/10/2014
10313999	IP1079		2.50	28/10/2014
10314009	IP1079		3.50	28/10/2014
10313962	IP1080		0.50	28/10/2014
10313967	IP1080		1.50	28/10/2014
10313972	IP1080		2.50	28/10/2014
10313976	IP1097		1.00	28/10/2014
10313980	IP1097		2.00	28/10/2014
10313984	IP1097		3.00	28/10/2014
10313894	IP1102		0.50	28/10/2014
10313949	IP1102		1.50	28/10/2014
10314003	IP1102		3.00	28/10/2014
10314042	IP1102		4.00	28/10/2014
10314046	IP1103		1.00	28/10/2014
10314051	IP1103		2.00	28/10/2014
10314055	IP1103		3.00	28/10/2014
10314059	IP1103		4.00	28/10/2014
10314063	IP1104		1.00	28/10/2014
10313898	IP1104		2.00	28/10/2014
10313903	IP1104		3.00	28/10/2014
10313909	IP1104		4.00	28/10/2014
10313914	IP1105		1.00	28/10/2014
10313919	IP1105		2.00	28/10/2014
10313925	IP1105		3.00	28/10/2014
10313930	IP1105		4.00	28/10/2014
10313935	IP1106		1.00	28/10/2014
10313940	IP1106		2.00	28/10/2014
10313945	IP1106		3.00	28/10/2014
10313954	IP1106		4.00	28/10/2014
10314027	IP1107		1.00	28/10/2014
10314032	IP1107		2.00	28/10/2014
10314036	IP1107		3.00	28/10/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			10314013			10314017			10314023			10313988			10313993			10313999			10314009		
Customer Sample Reference			IP1078			IP1078			IP1078			IP1079			IP1079			IP1079			IP1079		
AGS Reference																							
Depth (m)			0.50			1.50			2.50			0.50			1.50			2.50			3.50		
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 10		X									X										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 35	X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 5							X									X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X		

Lab Sample No(s)			10313962			10313967			10313972			10313976			10313980			10313984			10313894
Customer Sample Reference			IP1080			IP1080			IP1080			IP1097			IP1097			IP1097			IP1102
AGS Reference																					
Depth (m)			0.50			1.50			2.50			1.00			2.00			3.00			0.50
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 10		X									X								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 36		X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 35	X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 5										X									
TPH CWG GC (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

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Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)			10313894		10313949			10314003			10314042			10314046			10314051			10314055			10314059			10314063			10313898			10313903			10313909			10313914			10313919	
Customer Sample Reference			IP1102		IP1102			IP1102			IP1102			IP1103			IP1103			IP1103			IP1103			IP1104			IP1104			IP1104			IP1104			IP1105			IP1105	
AGS Reference																																											
Depth (m)			0.50		1.50			3.00			4.00			1.00			2.00			3.00			4.00			1.00			2.00			3.00			4.00			1.00			2.00	
Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 10	X												X												X												X			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 35			X			X			X			X			X			X			X			X			X			X			X						X	
Total Organic Carbon	All	NDPs: 0 Tests: 5															X																								X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X			X			X			X			X	

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			10313919			10313925			10313930			10313935			10313940			10313945			10313954			10314027			10314032			10314036
Customer Sample Reference			IP1105			IP1105			IP1105			IP1106			IP1106			IP1106			IP1106			IP1107			IP1107			IP1107
AGS Reference																														
Depth (m)			2.00			3.00			4.00			1.00			2.00			3.00			4.00			1.00			2.00			3.00
Container			60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 10									X												X							
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 36	X			X			X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 36			X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 35		X			X			X			X			X			X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 36		X			X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10314013	IP1078	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
10314017	IP1078	1.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10314023	IP1078	2.50	Light Brown	Sandy Clay	0.1 - 2 mm	Stones	None
10313988	IP1079	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
10313993	IP1079	1.50	Black	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
10313999	IP1079	2.50	Grey	Sandy Silt Loam	0.1 - 2 mm	Vegetation	Stones
10314009	IP1079	3.50	Grey	Sandy Silt Loam	0.1 - 2 mm	Stones	Oil/Petroleum
10313962	IP1080	0.50	Grey	Sandy Loam	0.1 - 2 mm	Stones	None
10313967	IP1080	1.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10313972	IP1080	2.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10313976	IP1097	1.00	Black	Loamy Sand	0.1 - 2 mm	Stones	None
10313980	IP1097	2.00	Grey	Sandy Loam	0.1 - 2 mm	Stones	None
10313984	IP1097	3.00	Grey	Sandy Silt Loam	0.1 - 2 mm	Vegetation	Oil/Petroleum
10313894	IP1102	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10313949	IP1102	1.50	Black	Shale	0.1 - 2 mm	Stones	None
10314003	IP1102	3.00	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
10314042	IP1102	4.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10314046	IP1103	1.00	Dark Brown	Sand	0.1 - 2 mm	Stones	None
10314051	IP1103	2.00	Black	Shale	0.063 - 0.1 mm	Stones	None
10314055	IP1103	3.00	Light Brown	Sandy Clay	0.1 - 2 mm	None	None
10314059	IP1103	4.00	Dark Brown	Stone/Soil	0.1 - 2 mm	Stones	None
10313898	IP1104	2.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10313903	IP1104	3.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10313909	IP1104	4.00	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
10314063	IP1104	1.00	Black	Sandy Loam	2 - 10 mm	Stones	None
10313914	IP1105	1.00	Black	Sand	0.1 - 2 mm	Stones	N/A
10313919	IP1105	2.00	Black	Shale	0.1 - 2 mm	Stones	Vegetation
10313925	IP1105	3.00	Light Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
10313930	IP1105	4.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10313935	IP1106	1.00	Black	Gravel	2 - 10 mm	Stones	None
10313940	IP1106	2.00	Light Brown	Clay Loam	0.063 - 0.1 mm	Stones	None
10313945	IP1106	3.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
10313954	IP1106	4.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10314027	IP1107	1.00	Black	Gravel	2 - 10 mm	Stones	None
10314032	IP1107	2.00	Light Brown	Clay Loam	0.1 - 2 mm	Vegetation	None
10314036	IP1107	3.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1078	IP1078	IP1078	IP1079	IP1079	IP1079
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314013	10314017	10314023	10313988	10313993	10313999
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	12	12	11	23	30
Soil Organic Matter (SOM)	<0.35 %	TM132				1.43 #			5.88 #
pH	1 pH Units	TM133		6.6 M	6.51 M	6.44 M	8.66 M	6.68 M	4.95 M
Arsenic	<0.6 mg/kg	TM181		12.2 M	9.44 M	9.01 M	20.4 M	20.8 M	110 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	<0.02 M	0.459 M	0.0357 M	0.257 M
Chromium	<0.9 mg/kg	TM181		12 M	13 M	12.5 M	18.7 M	13.3 M	10.7 M
Copper	<1.4 mg/kg	TM181		38.7 M	13.5 M	15.1 M	103 M	55.6 M	145 M
Lead	<0.7 mg/kg	TM181		28 M	14.5 M	16.1 M	97.5 M	68.6 M	65.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22.8 M	26.7 M	26 M	26.2 M	34.4 M	16 M
Selenium	<1 mg/kg	TM181		1.25 #	<1 #	<1 #	<1 #	<1 #	1.11 #
Vanadium	<0.2 mg/kg	TM181		16.1 #	14.9 #	15.1 #	20.4 #	28.3 #	16.9 #
Zinc	<1.9 mg/kg	TM181		108 M	71.5 M	72.2 M	225 M	87.3 M	81.1 M

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1079	IP1080	IP1080	IP1080	IP1097	IP1097
			Depth (m)	3.50	0.50	1.50	2.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314009	10313962	10313967	10313972	10313976	10313980
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	14	22	11	15	18
Soil Organic Matter (SOM)	<0.35 %	TM132						36.2 #	
pH	1 pH Units	TM133		5.86 M	7.88 M	8.48 M	7.87 M	8.18 M	6.95 M
Arsenic	<0.6 mg/kg	TM181		13.9 M	24.3 M	12.6 M	9.94 M	11.5 M	30 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.377 M	0.666 M	0.167 M	0.0993 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		15.8 M	32.1 M	16.9 M	13.6 M	18.3 M	11.8 M
Copper	<1.4 mg/kg	TM181		65.5 M	75.4 M	14.7 M	11.3 M	47.1 M	50.3 M
Lead	<0.7 mg/kg	TM181		48.2 M	82.7 M	16.4 M	16.1 M	22.3 M	26.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		23.4 M	23.5 M	12.2 M	24.2 M	29.8 M	11.8 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.1 #	24.9 #	21.8 #	14.7 #	28.5 #	15.7 #
Zinc	<1.9 mg/kg	TM181		149 M	292 M	131 M	71 M	86 M	41 M

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1097	IP1102	IP1102	IP1102	IP1102	IP1103
			Depth (m)	3.00	0.50	1.50	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313984	10313894	10313949	10314003	10314042	10314046
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		22	32	21	18	14	21
pH	1 pH Units	TM133		6.23 M	8.14 M	8.25 #	7.55 M	7.51 M	7.39 M
Arsenic	<0.6 mg/kg	TM181		75.1 M	48.8 M	21.4 #	6.84 M	9.56 M	23 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.593 M	0.587 #	<0.02 M	<0.02 M	0.778 M
Chromium	<0.9 mg/kg	TM181		13.7 M	15.5 M	12.7 #	15.4 M	11.7 M	10.9 M
Copper	<1.4 mg/kg	TM181		86.3 M	88.1 M	70.2 #	7.24 M	16.6 M	92.2 M
Lead	<0.7 mg/kg	TM181		78.1 M	167 M	126 #	8.49 M	10.4 M	203 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.198 #	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		9.01 M	23 M	36.7 #	12.8 M	22.4 M	61 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.07 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		22.8 #	16.1 #	32.6 #	17.6 #	14.5 #	27.7 #
Zinc	<1.9 mg/kg	TM181		56.2 M	417 M	167 #	47.8 M	61 M	501 M

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1103	IP1103	IP1103	IP1104	IP1104	IP1104
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314051	10314055	10314059	10314063	10313898	10313903
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		23	20	9.3	16	25	13
Soil Organic Matter (SOM)	<0.35 %	TM132		31.5 #					
pH	1 pH Units	TM133		7.06 #	7.56 M	7.6 #	5.6 M	6.75 M	6.11 M
Arsenic	<0.6 mg/kg	TM181		20.7 #	10.5 M	7.95 #	15.8 M	17.8 M	9.24 M
Cadmium	<0.02 mg/kg	TM181		0.452 #	<0.02 M	<0.02 #	<0.02 M	0.139 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		15.1 #	18.9 M	12.9 #	6.64 M	7.41 M	14.6 M
Copper	<1.4 mg/kg	TM181		75.9 #	13.1 M	14.8 #	42.9 M	50.7 M	17.5 M
Lead	<0.7 mg/kg	TM181		172 #	18.1 M	10.3 #	12.5 M	18.2 M	16 M
Mercury	<0.14 mg/kg	TM181		0.154 #	<0.14 M	<0.14 #	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		59.2 #	13.4 M	23.6 #	33.4 M	24.6 M	27.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.03 #	<1 #
Vanadium	<0.2 mg/kg	TM181		38 #	24 #	13.6 #	21 #	22 #	17.9 #
Zinc	<1.9 mg/kg	TM181		490 #	65.3 M	71.6 #	25.7 M	51.8 M	75.1 M

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1104	IP1105	IP1105	IP1105	IP1105	IP1106
			Depth (m)	4.00	1.00	2.00	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313909	10313914	10313919	10313925	10313930	10313935
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		25	23	23	20	19	18
Soil Organic Matter (SOM)	<0.35 %	TM132				>100 #			
pH	1 pH Units	TM133		5.6 M	5.77 M	5.07 #	5.76 M	6.46 M	6.15 #
Arsenic	<0.6 mg/kg	TM181		15.6 M	284 M	62.5 #	17.9 M	36.8 M	13.5 #
Cadmium	<0.02 mg/kg	TM181		0.157 M	0.915 M	0.0944 #	<0.02 M	1.05 M	<0.02 #
Chromium	<0.9 mg/kg	TM181		18.7 M	7.14 M	5.81 #	17.2 M	14.8 M	9.31 #
Copper	<1.4 mg/kg	TM181		7.11 M	47.1 M	42.4 #	10.6 M	111 M	42.2 #
Lead	<0.7 mg/kg	TM181		15.8 M	490 M	11 #	9.78 M	44.3 M	14.3 #
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.654 #	<0.14 M	<0.14 M	<0.14 #
Nickel	<0.2 mg/kg	TM181		17.7 M	22.5 M	25.4 #	12.2 M	23.9 M	21.1 #
Selenium	<1 mg/kg	TM181		<1 #	<1 #	2.13 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		23.2 #	19.6 #	22.9 #	23.4 #	20.8 #	32.9 #
Zinc	<1.9 mg/kg	TM181		63.1 M	3100 M	30.7 #	47 M	143 M	19.3 #

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1106	IP1106	IP1106	IP1107	IP1107	IP1107
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313940	10313945	10313954	10314027	10314032	10314036
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		21	20	13	16	19	18
pH	1 pH Units	TM133		6.98 M	5.27 M	6.44 M	7.89 #	7.06 M	7.13 M
Arsenic	<0.6 mg/kg	TM181		8.25 M	88.2 M	10.2 M	9.47 #	9.88 M	11.3 M
Cadmium	<0.02 mg/kg	TM181		0.226 M	0.905 M	<0.02 M	0.182 #	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		19.4 M	9.55 M	14.6 M	14.8 #	18.5 M	16.8 M
Copper	<1.4 mg/kg	TM181		7.65 M	175 M	19.5 M	32.7 #	11.6 M	25.9 M
Lead	<0.7 mg/kg	TM181		10.4 M	47.9 M	15.6 M	28.6 #	15.4 M	14 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 #	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		20.9 M	7.95 M	27.6 M	25.9 #	13.5 M	21.9 M
Selenium	<1 mg/kg	TM181		1.21 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		24.1 #	19.2 #	19.3 #	23.3 #	23.7 #	24.6 #
Zinc	<1.9 mg/kg	TM181		130 M	95 M	113 M	86.5 #	54.7 M	73.3 M

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1078	IP1078	IP1078	IP1079	IP1079	IP1079
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314013	10314017	10314023	10313988	10313993	10313999
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		99.5	99.7	101	97.1	96.8	97.4
Acenaphthene-d10 % recovery**	%	TM218		101	97.3	96.9	99.7	102	98.1
Phenanthrene-d10 % recovery**	%	TM218		101	97	93.7	101	109	98.3
Chrysene-d12 % recovery**	%	TM218		93.2	89.9	96.6	96.4	95.8	105
Perylene-d12 % recovery**	%	TM218		94.4	92.3	99.6	97.5	96.3	105
Naphthalene	<9 µg/kg	TM218		54.7 @ M	<9 @ M	15.4 @ M	115 @ M	1460 @ M	123 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	155 @ M	337 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	184 @ M	1450 @ M	56.6 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	131 @ M	3310 @ M	81.3 @ M
Phenanthrene	<15 µg/kg	TM218		163 @ M	30.6 @ M	34.2 @ M	1000 @ M	11700 @ M	402 @ M
Anthracene	<16 µg/kg	TM218		47.6 @ M	<16 @ M	<16 @ M	360 @ M	4970 @ M	61.7 @ M
Fluoranthene	<17 µg/kg	TM218		158 @ M	<17 @ M	<17 @ M	3310 @ M	10500 @ M	321 @ M
Pyrene	<15 µg/kg	TM218		135 @ M	<15 @ M	<15 @ M	3020 @ M	8300 @ M	264 @ M
Benz(a)anthracene	<14 µg/kg	TM218		90.2 @ M	<14 @ M	<14 @ M	2570 @ M	6610 @ M	128 @ M
Chrysene	<10 µg/kg	TM218		161 @ M	<10 @ M	<10 @ M	3070 @ M	5230 @ M	157 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		148 @ M	<15 @ M	<15 @ M	6050 @ M	7140 @ M	173 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		43.5 @ M	<14 @ M	<14 @ M	2170 @ M	3090 @ M	57 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		90.4 @ M	<15 @ M	<15 @ M	4170 @ M	6440 @ M	85.7 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		59.2 @ M	<18 @ M	<18 @ M	3730 @ M	3570 @ M	61.6 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	1160 @ M	1380 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		75.7 @ M	<24 @ M	<24 @ M	5230 @ M	4070 @ M	77.6 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1230	<118	<118	36400	79500	2050

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1079	IP1080	IP1080	IP1080	IP1097	IP1097
			Depth (m)	3.50	0.50	1.50	2.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314009	10313962	10313967	10313972	10313976	10313980
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		104	101	102	103	110	100
Acenaphthene-d10 % recovery**	%	TM218		102	105	96.2	97.5	108	97.2
Phenanthrene-d10 % recovery**	%	TM218		104	107	97.1	98.2	103	92.6
Chrysene-d12 % recovery**	%	TM218		118	101	102	106	112	93.1
Perylene-d12 % recovery**	%	TM218		112	99.7	101	103	112	92.9
Naphthalene	<9 µg/kg	TM218		82.4 @ M	79.3 @ M	<9 @ M	<9 @ M	200 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		56.8 @ M	31.6 @ M	<12 @ M	<12 @ M	220 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		64.5 @ M	79 @ M	<8 @ M	<8 @ M	1310 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		73.6 @ M	91.5 @ M	<10 @ M	<10 @ M	1310 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		468 @ M	463 @ M	<15 @ M	62.4 @ M	9470 @ M	22.7 @ M
Anthracene	<16 µg/kg	TM218		172 @ M	118 @ M	<16 @ M	<16 @ M	2370 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		1400 @ M	809 @ M	<17 @ M	<17 @ M	15000 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		1240 @ M	817 @ M	<15 @ M	<15 @ M	9820 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		1300 @ M	490 @ M	<14 @ M	<14 @ M	11300 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		1440 @ M	732 @ M	<10 @ M	36.3 @ M	9450 @ M	<10 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		2880 @ M	950 @ M	<15 @ M	43.6 @ M	14500 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		1220 @ M	390 @ M	<14 @ M	<14 @ M	5220 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		1910 @ M	681 @ M	<15 @ M	<15 @ M	9020 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		1360 @ M	439 @ M	<18 @ M	<18 @ M	5590 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		515 @ M	155 @ M	<23 @ M	<23 @ M	2460 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1660 @ M	516 @ M	<24 @ M	<24 @ M	5910 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		15800	6840	<118	142	103000	<118

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1097	IP1102	IP1102	IP1102	IP1102	IP1103
			Depth (m)	3.00	0.50	1.50	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313984	10313894	10313949	10314003	10314042	10314046
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	121	104	105	105	120
Acenaphthene-d10 % recovery**	%	TM218		104	123	97.7	96.4	100	120
Phenanthrene-d10 % recovery**	%	TM218		102	123	97.6	96.8	97.3	114
Chrysene-d12 % recovery**	%	TM218		99.3	113	99.5	104	104	92
Perylene-d12 % recovery**	%	TM218		100	113	93.2	102	98.2	78.2
Naphthalene	<9 µg/kg	TM218		306 @ M	201 @ M	327 @ #	<9 @ M	<9 @ M	154 @ M
Acenaphthylene	<12 µg/kg	TM218		60.7 @ M	265 @ M	176 @ #	<12 @ M	<12 @ M	31.3 @ M
Acenaphthene	<8 µg/kg	TM218		295 @ M	57.2 @ M	<40 @ #	<8 @ M	<8 @ M	11.4 @ M
Fluorene	<10 µg/kg	TM218		304 @ M	107 @ M	<50 @ #	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		1120 @ M	1170 @ M	622 @ #	<15 @ M	56 @ M	301 @ M
Anthracene	<16 µg/kg	TM218		261 @ M	440 @ M	184 @ #	<16 @ M	<16 @ M	39.6 @ M
Fluoranthene	<17 µg/kg	TM218		302 @ M	3560 @ M	1120 @ #	<17 @ M	<17 @ M	287 @ M
Pyrene	<15 µg/kg	TM218		516 @ M	2920 @ M	1050 @ #	<15 @ M	<15 @ M	249 @ M
Benz(a)anthracene	<14 µg/kg	TM218		146 @ M	1840 @ M	594 @ #	<14 @ M	<14 @ M	141 @ M
Chrysene	<10 µg/kg	TM218		153 @ M	2200 @ M	788 @ #	<10 @ M	27.3 @ M	225 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		95.3 @ M	3120 @ M	1330 @ #	<15 @ M	24.7 @ M	236 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		42.3 @ M	1230 @ M	494 @ #	<14 @ M	<14 @ M	113 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		129 @ M	2010 @ M	696 @ #	<15 @ M	<15 @ M	150 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		48.3 @ M	1370 @ M	429 @ #	<18 @ M	<18 @ M	110 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	453 @ M	208 @ #	<23 @ M	<23 @ M	36.3 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		73.4 @ M	1570 @ M	581 @ #	<24 @ M	<24 @ M	151 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3850	22500	8610	<118	<118	2240

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1103	IP1103	IP1103	IP1104	IP1104	IP1104
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314051	10314055	10314059	10314063	10313898	10313903
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		114	107	95.7	116	102	93.8
Acenaphthene-d10 % recovery**	%	TM218		109	101	95	118	99.9	94.3
Phenanthrene-d10 % recovery**	%	TM218		102	97.3	94.7	96.8	84.3	94.5
Chrysene-d12 % recovery**	%	TM218		110	104	99.5	55.7	73.2	84.9
Perylene-d12 % recovery**	%	TM218		98.2	97.3	98.5	31.7	65.1	81.8
Naphthalene	<9 µg/kg	TM218		149 @ #	<9 @ M	<9 @ #	107 @ M	93.6 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		22.5 @ #	<12 @ M	<12 @ #	<12 @ M	16.6 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ #	<8 @ M	<8 @ #	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ #	<10 @ M	<10 @ #	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		262 @ #	<15 @ M	58.4 @ #	296 @ M	240 @ M	42.6 @ M
Anthracene	<16 µg/kg	TM218		31.2 @ #	<16 @ M	<16 @ #	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		247 @ #	<17 @ M	<17 @ #	35.3 @ M	94.6 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		181 @ #	<15 @ M	<15 @ #	<15 @ M	81.4 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		181 @ #	<14 @ M	<14 @ #	<14 @ M	47.6 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		294 @ #	<10 @ M	42.9 @ #	64.6 @ M	149 @ M	<10 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		386 @ #	<15 @ M	61 @ #	27.6 @ M	130 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		145 @ #	<14 @ M	<14 @ #	<14 @ M	33.8 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		208 @ #	<15 @ M	<15 @ #	<15 @ M	49.1 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		158 @ #	<18 @ M	<18 @ #	<18 @ M	35.9 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		52.3 @ #	<23 @ M	<23 @ #	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		227 @ #	<24 @ M	<24 @ #	<24 @ M	57.7 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2540	<118	162	531	1030	<118

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1104	IP1105	IP1105	IP1105	IP1105	IP1106
			Depth (m)	4.00	1.00	2.00	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313909	10313914	10313919	10313925	10313930	10313935
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		106	106	101	102	96.9	198
Acenaphthene-d10 % recovery**	%	TM218		99.1	107	98.7	96.1	97	207
Phenanthrene-d10 % recovery**	%	TM218		101	106	60.7	94.8	94.9	129
Chrysene-d12 % recovery**	%	TM218		110	96	18.4	98.8	96.2	33.6
Perylene-d12 % recovery**	%	TM218		109	95.9	7.9	91.5	96.4	12
Naphthalene	<9 µg/kg	TM218		<9 @ M	37.9 @ M	213 @ #	<9 @ M	17.3 @ M	420 @ #
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	25.3 @ #	<12 @ M	<12 @ M	50.9 @ #
Acenaphthene	<8 µg/kg	TM218		<8 @ M	20.5 @ M	<8 @ #	<8 @ M	<8 @ M	<8 @ #
Fluorene	<10 µg/kg	TM218		<10 @ M	26.7 @ M	<10 @ #	<10 @ M	<10 @ M	<10 @ #
Phenanthrene	<15 µg/kg	TM218		<15 @ M	286 @ M	147 @ #	35.4 @ M	51 @ M	440 @ #
Anthracene	<16 µg/kg	TM218		<16 @ M	50.1 @ M	<16 @ #	<16 @ M	<16 @ M	<16 @ #
Fluoranthene	<17 µg/kg	TM218		<17 @ M	367 @ M	38.2 @ #	43.8 @ M	61.6 @ M	78.9 @ #
Pyrene	<15 µg/kg	TM218		<15 @ M	312 @ M	30.3 @ #	34.4 @ M	48.2 @ M	49.5 @ #
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	184 @ M	<14 @ #	<14 @ M	38.4 @ M	<14 @ #
Chrysene	<10 µg/kg	TM218		<10 @ M	261 @ M	<10 @ #	<10 @ M	40.5 @ M	55.6 @ #
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	264 @ M	<15 @ #	<15 @ M	84.7 @ M	18.6 @ #
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	137 @ M	<14 @ #	<14 @ M	22.7 @ M	<14 @ #
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	209 @ M	<15 @ #	<15 @ M	31.6 @ M	<15 @ #
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	123 @ M	<18 @ #	<18 @ M	<18 @ M	<18 @ #
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	48.2 @ M	<23 @ #	<23 @ M	<23 @ M	<23 @ #
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	161 @ M	<24 @ #	<24 @ M	<24 @ M	<24 @ #
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	2490	454	<118	396	1110

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1106	IP1106	IP1106	IP1107	IP1107	IP1107
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313940	10313945	10313954	10314027	10314032	10314036
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		99.2	105	99.6	118	102	100
Acenaphthene-d10 % recovery**	%	TM218		93	98.9	97.3	123	101	99.1
Phenanthrene-d10 % recovery**	%	TM218		88.6	97.9	94.9	113	99.6	94.7
Chrysene-d12 % recovery**	%	TM218		91.2	101	95.5	89	102	80.9
Perylene-d12 % recovery**	%	TM218		83.7	96.1	88.6	70.5	99.8	76
Naphthalene	<9 µg/kg	TM218		<9 @ M	13.6 @ M	13 @ M	111 @ #	<9 @ M	34.3 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ #	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	<8 @ #	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	<10 @ #	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		<15 @ M	35.6 @ M	63.3 @ M	328 @ #	47.8 @ M	134 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ #	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	<17 @ M	96.6 @ #	<17 @ M	36.7 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	76.5 @ #	<15 @ M	30.8 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	31.3 @ #	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	19.8 @ M	32 @ M	141 @ #	19.4 @ M	<10 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	<15 @ M	55 @ M	68.6 @ #	<15 @ M	41.9 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	<14 @ #	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	24.3 @ #	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ #	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ #	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	<24 @ #	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	163	878	<118	278

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1078	IP1078	IP1078	IP1079	IP1079	IP1079
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314013	10314017	10314023	10313988	10313993	10313999
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		106 @	81 @	106 @	83 @	88 @	94 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		292 @ M	642 @ M	1360 @ M	<176 @ M	203000 @ M	68000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<100 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<200 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<40 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	91.7 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<120 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	91.7 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	111 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	44.1 @	41.8 @	<40 @	603 @	1660 @
Aliphatics >C8-C10	<10 µg/kg	TM089		61.9 @	167 @	231 @	<40 @	22800 @	12800 @
Aliphatics >C10-C12	<10 µg/kg	TM089		94 @	184 @	549 @	<40 @	98500 @	27000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		452	<100	2210	8750	2180000	105000
Aliphatics >C16-C21	<100 µg/kg	TM173		1710	<100	<100	29000	2820000	18600
Aliphatics >C21-C35	<100 µg/kg	TM173		18100	<100	<100	101000	1160000	2290
Aliphatics >C35-C44	<100 µg/kg	TM173		14000	<100	<100	37700	367000	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		34200	<100	2210	176000	6530000	126000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		44 @	111 @	157 @	<40 @	15300 @	8500 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		61.9 @	123 @	366 @	<40 @	65700 @	18000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	4450	276000	260000
Aromatics >EC16-EC21	<100 µg/kg	TM173		393	268	<100	19200	859000	142000
Aromatics >EC21-EC35	<100 µg/kg	TM173		11300	1790	<100	127000	1180000	114000
Aromatics >EC35-EC44	<100 µg/kg	TM173		13700	1960	<100	67300	352000	22800
Aromatics >EC40-EC44	<100 µg/kg	TM173		6480	1030	<100	26500	126000	6040
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		25300	4020	<100	218000	2670000	539000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		59800	4660	3570	394000	9400000	733000

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1079	IP1080	IP1080	IP1080	IP1097	IP1097
			Depth (m)	3.50	0.50	1.50	2.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314009	10313962	10313967	10313972	10313976	10313980
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		118 @	77 @	92 @	83 @	101 @	111 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		19600 @ M	8400 @ M	<176 @ M	4700 @ M	<880 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<100 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<200 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<40 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<120 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		73.5 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		1430 @	117 @	<40 @	72.3 @	<200 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		4820 @	1140 @	<40 @	913 @	<200 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		6010 @	3810 @	<40 @	1860 @	<200 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		68300	128000	<100	<100	13000	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		69500	185000	3400	<100	45000	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		55500	1600000	13200	<100	120000	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		20900	557000	5230	<100	37200	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		214000	2460000	21800	<100	215000	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		3210 @	761 @	<40 @	608 @	<200 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		4000 @	2540 @	<40 @	1240 @	<200 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		10200	20900	<100	<100	6070	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		26200	93800	1260	<100	50600	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		65500	934000	11900	<100	233000	744
Aromatics >EC35-EC44	<100 µg/kg	TM173		29700	331000	5370	<100	88200	1170
Aromatics >EC40-EC44	<100 µg/kg	TM173		10900	117000	1860	<100	30400	580
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		132000	1380000	18600	<100	378000	1910
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		365000	3850000	40400	4710	593000	1910

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1097	IP1102	IP1102	IP1102	IP1102	IP1103
			Depth (m)	3.00	0.50	1.50	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313984	10313894	10313949	10314003	10314042	10314046
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		76 @	87 @	80 @	86 @	76 @	97 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		158000 @ M	<176 @ M	<880 @ #	<176 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<100 @ #	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<200 @ #	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<40 @ #	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<60 @ #	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<120 @ #	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<60 @ #	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		115 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		7920 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		34900 @	<40 @	<200 @	<40 @	44.1 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		54900 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		519000	9090	39100	<100	<100	2560
Aliphatics >C16-C21	<100 µg/kg	TM173		253000	71800	170000	<100	<100	15400
Aliphatics >C21-C35	<100 µg/kg	TM173		67100	209000	530000	<100	<100	43800
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	59200	480000	<100	<100	14800
Total Aliphatics >C12-C44	<100 µg/kg	TM173		839000	349000	1220000	<100	<100	76500
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		23300 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		36600 @	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1030000	3080	9860	<100	<100	1650
Aromatics >EC16-EC21	<100 µg/kg	TM173		661000	20600	53000	365	<100	5510
Aromatics >EC21-EC35	<100 µg/kg	TM173		628000	172000	419000	4250	<100	35200
Aromatics >EC35-EC44	<100 µg/kg	TM173		148000	92600	263000	2930	<100	17400
Aromatics >EC40-EC44	<100 µg/kg	TM173		52200	36400	112000	1400	<100	7500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		2470000	288000	745000	7540	<100	59700
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		3460000	638000	1960000	7550	107	136000

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1103	IP1103	IP1103	IP1104	IP1104	IP1104
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10314051	10314055	10314059	10314063	10313898	10313903
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80 @	103 @	124 @	78 @	71 @	92 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ #	<176 @ M	<44 @ #	<176 @ M	<880 @ M	2060 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ #	<20 @ M	<5 @ #	<20 @ M	<100 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ #	<40 @ M	<10 @ #	<40 @ M	<200 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		15.5 @ #	<8 @ M	<2 @ #	<8 @ M	<40 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ #	<12 @ M	<3 @ #	<12 @ M	<60 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ #	<24 @ M	<6 @ #	<24 @ M	<120 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ #	<12 @ M	<3 @ #	<12 @ M	<60 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	72.5 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	57.5 @	<10 @	<40 @	<200 @	498 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	681 @
Aliphatics >C12-C16	<100 µg/kg	TM173		1740	<100	<100	<100	1530	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		3610	<100	<100	<100	3040	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		13100	<100	<100	6000	13100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		4290	<100	<100	3870	5890	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		22700	<100	<100	9870	23600	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	332 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<200 @	454 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1650	<100	<100	436	637	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		2910	<100	<100	738	2060	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		11800	<100	<100	2570	12800	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		4260	<100	<100	934	7120	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		1180	<100	<100	<100	2810	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		20600	<100	<100	4680	22600	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		43400	145	<100	14600	46200	2060

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1104	IP1105	IP1105	IP1105	IP1105	IP1106
			Depth (m)	4.00	1.00	2.00	3.00	4.00	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313909	10313914	10313919	10313925	10313930	10313935
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		112 @	71 @	76 @	78 @	76 @	65 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		77000 @ M	<880 @ M	<880 @ #	<176 @ M	<176 @ M	<880 @ #
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<100 @ M	<100 @ #	<20 @ M	<20 @ M	<100 @ #
Benzene	<10 µg/kg	TM089		<40 @ M	<200 @ M	<200 @ #	<40 @ M	<40 @ M	<200 @ #
Toluene	<2 µg/kg	TM089		<8 @ M	<40 @ M	<40 @ #	<8 @ M	<8 @ M	<40 @ #
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<60 @ M	<60 @ #	<12 @ M	<12 @ M	<60 @ #
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<120 @ M	<120 @ #	<24 @ M	<24 @ M	<120 @ #
o-Xylene	<3 µg/kg	TM089		<12 @ M	<60 @ M	<60 @ #	<12 @ M	<12 @ M	<60 @ #
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		114 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aliphatics >C6-C8	<10 µg/kg	TM089		331 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aliphatics >C8-C10	<10 µg/kg	TM089		18600 @	<200 @	254 @	<40 @	<40 @	<200 @
Aliphatics >C10-C12	<10 µg/kg	TM089		27400 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aliphatics >C12-C16	<100 µg/kg	TM173		32200	<100	<100	<100	<100	1800
Aliphatics >C16-C21	<100 µg/kg	TM173		41600	<100	<100	<100	<100	3110
Aliphatics >C21-C35	<100 µg/kg	TM173		33800	5140	<100	<100	1750	14700
Aliphatics >C35-C44	<100 µg/kg	TM173		309	1510	<100	<100	<100	2460
Total Aliphatics >C12-C44	<100 µg/kg	TM173		108000	6640	<100	<100	1750	22100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		12400 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		18300 @	<200 @	<200 @	<40 @	<40 @	<200 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		5220	748	<100	<100	<100	305
Aromatics >EC16-EC21	<100 µg/kg	TM173		15000	2620	<100	440	159	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		19500	8940	<100	1580	3920	5870
Aromatics >EC35-EC44	<100 µg/kg	TM173		287	6660	<100	<100	3350	3330
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	3260	<100	<100	1520	1630
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		40000	19000	<100	2020	7430	9500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		225000	25600	833	2030	9210	31600

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1106	IP1106	IP1106	IP1107	IP1107	IP1107
			Depth (m)	2.00	3.00	4.00	1.00	2.00	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014	04/11/2014
			SDG Ref	141104-40	141104-40	141104-40	141104-40	141104-40	141104-40
			Lab Sample No.(s)	10313940	10313945	10313954	10314027	10314032	10314036
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		112 @	89 @	86 @	79 @	126 @	106 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	<176 @ M	<176 @ M	<176 @ #	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ #	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ #	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ #	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ #	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ #	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ #	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<36 @	<9 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<96 @	<24 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	3270	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	3430	<100	21200	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	12400	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	3430	<100	36900	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	942	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	<100	2270	<100	847
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	11700	<100	13000	3320	7510
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	333	<100	9820	<100	5270
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	4390	<100	2130
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	12100	<100	26000	3320	13600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	15500	<100	62900	3340	13600

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1078 0.50 SOLID 28/10/2014 00:00:00 10/11/2014 09:51:56 141104-40 10314013 TM048	19/11/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1079 0.50 SOLID 28/10/2014 00:00:00 05/11/2014 13:04:46 141104-40 10313988 TM048	19/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1080 0.50 SOLID 28/10/2014 00:00:00 05/11/2014 13:00:58 141104-40 10313962 TM048	19/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1097 1.00 SOLID 28/10/2014 00:00:00 06/11/2014 15:04:32 141104-40 10313976 TM048	19/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1102 0.50 SOLID 28/10/2014 00:00:00 06/11/2014 10:07:54 141104-40 10313894 TM048	19/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1103 1.00 SOLID 28/10/2014 00:00:00 07/11/2014 19:07:17 141104-40 10314046 TM048	20/11/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1104 1.00 SOLID 28/10/2014 00:00:00 07/11/2014 19:05:00 141104-40 10314063 TM048	19/11/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1105 1.00 SOLID 28/10/2014 00:00:00 10/11/2014 09:55:05 141104-40 10313914 TM048	19/11/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1106 1.00 SOLID 28/10/2014 00:00:00 06/11/2014 16:46:14 141104-40 10313935 TM048	19/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1107 1.00 SOLID 28/10/2014 00:00:00 10/11/2014 09:48:25 141104-40 10314027 TM048	20/11/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10314013	10314017	10314023	10313988	10313993	10313999	10314009	10313962	10313967	10313972
Customer Sample Ref.	IP1078	IP1078	IP1078	IP1079	IP1079	IP1079	IP1079	IP1080	IP1080	IP1080
AGS Ref.										
Depth	0.50	1.50	2.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	21-Nov-2014			21-Nov-2014				21-Nov-2014		
EPH CWG (Aliphatic) GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014
EPH CWG (Aromatic) GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014
GRO by GC-FID (S)	18-Nov-2014	19-Nov-2014	18-Nov-2014	18-Nov-2014	20-Nov-2014	19-Nov-2014	18-Nov-2014	20-Nov-2014	19-Nov-2014	19-Nov-2014
Metals in solid samples by OES	12-Nov-2014	17-Nov-2014	17-Nov-2014	13-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014	12-Nov-2014	17-Nov-2014	18-Nov-2014
PAH by GCMS	18-Nov-2014	16-Nov-2014	18-Nov-2014	18-Nov-2014	16-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014
pH	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014
Sample description	06-Nov-2014	04-Nov-2014	04-Nov-2014	05-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	04-Nov-2014	04-Nov-2014
Total Organic Carbon			13-Nov-2014			12-Nov-2014				
TPH CWG GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014

Lab Sample No(s)	10313976	10313980	10313984	10313894	10313949	10314003	10314042	10314046	10314051	10314055
Customer Sample Ref.	IP1097	IP1097	IP1097	IP1102	IP1102	IP1102	IP1102	IP1103	IP1103	IP1103
AGS Ref.										
Depth	1.00	2.00	3.00	0.50	1.50	3.00	4.00	1.00	2.00	3.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	21-Nov-2014			21-Nov-2014				21-Nov-2014		
EPH CWG (Aliphatic) GC (S)	20-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014
EPH CWG (Aromatic) GC (S)	20-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014
GRO by GC-FID (S)	20-Nov-2014	18-Nov-2014	19-Nov-2014	18-Nov-2014	20-Nov-2014	19-Nov-2014	19-Nov-2014	20-Nov-2014	20-Nov-2014	19-Nov-2014
Metals in solid samples by OES	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014	19-Nov-2014	18-Nov-2014	18-Nov-2014	14-Nov-2014	17-Nov-2014	18-Nov-2014
PAH by GCMS	19-Nov-2014	18-Nov-2014	18-Nov-2014	19-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	19-Nov-2014	18-Nov-2014	18-Nov-2014
pH	18-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014
Sample description	05-Nov-2014	07-Nov-2014	07-Nov-2014	06-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	06-Nov-2014	04-Nov-2014	06-Nov-2014
Total Organic Carbon	19-Nov-2014								13-Nov-2014	
TPH CWG GC (S)	20-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	21-Nov-2014

Lab Sample No(s)	10314059	10313898	10313903	10313909	10314063	10313914	10313919	10313925	10313930	10313935
Customer Sample Ref.	IP1103	IP1104	IP1104	IP1104	IP1104	IP1105	IP1105	IP1105	IP1105	IP1106
AGS Ref.										
Depth	4.00	2.00	3.00	4.00	1.00	1.00	2.00	3.00	4.00	1.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples					21-Nov-2014	21-Nov-2014				21-Nov-2014
EPH CWG (Aliphatic) GC (S)	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014
EPH CWG (Aromatic) GC (S)	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014
GRO by GC-FID (S)	20-Nov-2014	20-Nov-2014	19-Nov-2014	19-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	19-Nov-2014	19-Nov-2014	19-Nov-2014
Metals in solid samples by OES	18-Nov-2014	18-Nov-2014	17-Nov-2014	18-Nov-2014	13-Nov-2014	14-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	13-Nov-2014
PAH by GCMS	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	19-Nov-2014	20-Nov-2014	18-Nov-2014	17-Nov-2014	18-Nov-2014
pH	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014
Sample description	06-Nov-2014	06-Nov-2014	06-Nov-2014	04-Nov-2014	07-Nov-2014	06-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	06-Nov-2014
Total Organic Carbon							17-Nov-2014			
TPH CWG GC (S)	21-Nov-2014	21-Nov-2014	21-Nov-2014	20-Nov-2014	21-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014

Lab Sample No(s)	10313940	10313945	10313954	10314027	10314032	10314036
Customer Sample Ref.	IP1106	IP1106	IP1106	IP1107	IP1107	IP1107
AGS Ref.						
Depth	2.00	3.00	4.00	1.00	2.00	3.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				21-Nov-2014		
EPH CWG (Aliphatic) GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014
EPH CWG (Aromatic) GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014
GRO by GC-FID (S)	18-Nov-2014	18-Nov-2014	18-Nov-2014	19-Nov-2014	19-Nov-2014	19-Nov-2014
Metals in solid samples by OES	18-Nov-2014	18-Nov-2014	17-Nov-2014	12-Nov-2014	17-Nov-2014	18-Nov-2014
PAH by GCMS	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	17-Nov-2014	16-Nov-2014
pH	17-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014
Sample description	04-Nov-2014	04-Nov-2014	04-Nov-2014	06-Nov-2014	04-Nov-2014	04-Nov-2014
TPH CWG GC (S)	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014	20-Nov-2014

SDG:	141104-40	**Location:**	Coed Darcy	**Order Number:**	Cd0937
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	292912
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
5	**Samples exceeded holding time before presevation was performed**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
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Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

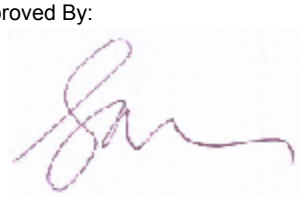
Date:	16 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141031-75
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	295897

We received 23 samples on Friday October 31, 2014 and 23 of these samples were scheduled for analysis which was completed on Tuesday December 16, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10296742	IP1074		0.50	27/10/2014
10296746	IP1074		1.50	27/10/2014
10296752	IP1074		2.50	27/10/2014
10296756	IP1075		0.50	27/10/2014
10296761	IP1075		1.50	27/10/2014
10296766	IP1075		2.50	27/10/2014
10296770	IP1076		0.50	27/10/2014
10296775	IP1076		1.50	27/10/2014
10296787	IP1076		2.50	27/10/2014
10296793	IP1077		0.50	27/10/2014
10296800	IP1077		1.50	27/10/2014
10296808	IP1077		2.50	27/10/2014
10296846	TPE487		0.50	27/10/2014
10296729	TPE487		1.50	27/10/2014
10296734	TPE487		2.50	27/10/2014
10296832	TPE488		0.50	27/10/2014
10296836	TPE488		1.50	27/10/2014
10296842	TPE488		2.50	27/10/2014
10296819	TPE489		0.50	27/10/2014
10296827	TPE489		1.50	27/10/2014
10296725	TPE490		0.50	27/10/2014
10296781	TPE490		1.50	27/10/2014
10296815	TPE490		2.50	27/10/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		10296742	IP1074		0.50	250g Amber Jar (AL
		10296746	IP1074		1.50	400g Tub (ALE214)
		10296752	IP1074		2.50	60g VOC (ALE215)
		10296756	IP1075		0.50	250g Amber Jar (AL
		10296761	IP1075		1.50	400g Tub (ALE214)
		10296766	IP1075		2.50	60g VOC (ALE215)
		10296770	IP1076		0.50	250g Amber Jar (AL
		10296775	IP1076		1.50	400g Tub (ALE214)
		10296787	IP1076		2.50	60g VOC (ALE215)
		10296793	IP1077		0.50	250g Amber Jar (AL
		10296800	IP1077		1.50	400g Tub (ALE214)
		10296808	IP1077		2.50	60g VOC (ALE215)
		10296846	TPE487		0.50	250g Amber Jar (AL
		10296729	TPE487		1.50	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8				
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 23				
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 23				
GRO by GC-FID (S)	All	NDPs: 0 Tests: 23				
Metals in solid samples by OES	All	NDPs: 0 Tests: 23				
PAH by GCMS	All	NDPs: 0 Tests: 23				
pH	All	NDPs: 0 Tests: 23				
Sample description	All	NDPs: 0 Tests: 23				
Total Organic Carbon	All	NDPs: 0 Tests: 3				
TPH CWG GC (S)	All	NDPs: 0 Tests: 23				

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
		10296729	TPE487		1.50	400g Tub (ALE214)
						60g VOC (ALE215)
		10296734	TPE487		2.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296832	TPE488		0.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296836	TPE488		1.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296842	TPE488		2.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296819	TPE489		0.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296827	TPE489		1.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296725	TPE490		0.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296781	TPE490		1.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
		10296815	TPE490		2.50	250g Amber Jar (AL
						400g Tub (ALE214)
						60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 23				
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 23				
GRO by GC-FID (S)	All	NDPs: 0 Tests: 23				
Metals in solid samples by OES	All	NDPs: 0 Tests: 23				
PAH by GCMS	All	NDPs: 0 Tests: 23				
pH	All	NDPs: 0 Tests: 23				
Sample description	All	NDPs: 0 Tests: 23				
Total Organic Carbon	All	NDPs: 0 Tests: 3				
TPH CWG GC (S)	All	NDPs: 0 Tests: 23				

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10296742	IP1074	0.50	Black	Sandy Clay Loam	0.1 - 2 mm	Stones	Coal fragments
10296746	IP1074	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
10296752	IP1074	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296756	IP1075	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10296761	IP1075	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10296766	IP1075	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296770	IP1076	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
10296775	IP1076	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
10296787	IP1076	2.50	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Stones
10296793	IP1077	0.50	Dark Brown	Sand	0.1 - 2 mm	None	Stones
10296800	IP1077	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296808	IP1077	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296729	TPE487	1.50	Light Brown	Sandy Clay	0.063 - 0.1 mm	Stones	Vegetation
10296734	TPE487	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10296846	TPE487	0.50	Light Brown	Clay	0.063 - 0.1 mm	None	None
10296832	TPE488	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	None	None
10296836	TPE488	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10296842	TPE488	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296819	TPE489	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
10296827	TPE489	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296725	TPE490	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	None	None
10296781	TPE490	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10296815	TPE490	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1074	IP1074	IP1074	IP1075	IP1075	IP1075
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296742	10296746	10296752	10296756	10296761	10296766
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	14	12	14	10	10
Soil Organic Matter (SOM)	<0.35 %	TM132						2.43 #	
pH	1 pH Units	TM133		8.43 M	6.19 M	6.17 M	8.17 M	5.75 M	7.47 M
Arsenic	<0.6 mg/kg	TM181		24 M	9.76 M	9.53 M	26.6 M	8.6 M	7.66 M
Cadmium	<0.02 mg/kg	TM181		1.02 M	<0.02 M	<0.02 M	0.715 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		33 M	14.7 M	13.5 M	20.4 M	16.7 M	11.1 M
Copper	<1.4 mg/kg	TM181		108 M	19.4 M	16 M	133 M	24.2 M	17.7 M
Lead	<0.7 mg/kg	TM181		854 M	12.7 M	18.9 M	657 M	24 M	11.4 M
Mercury	<0.14 mg/kg	TM181		0.405 M	<0.14 M	<0.14 M	0.164 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		36.7 M	31.1 M	28.2 M	35.7 M	24.3 M	28.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		30.2 #	16 #	13.9 #	24.2 #	16.2 #	11.7 #
Zinc	<1.9 mg/kg	TM181		623 M	76.1 M	67.5 M	386 M	84.7 M	63.6 M

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
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Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1076	IP1076	IP1076	IP1077	IP1077	IP1077
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296770	10296775	10296787	10296793	10296800	10296808
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		17	20	12	14	16	13
pH	1 pH Units	TM133		6.59 M	5.16 M	5.8 M	8.33 M	7.55 M	6.43 M
Arsenic	<0.6 mg/kg	TM181		26.5 M	64.1 M	16.1 M	25.2 M	8.28 M	9.75 M
Cadmium	<0.02 mg/kg	TM181		0.961 M	2.01 M	<0.02 M	1.57 M	<0.02 M	0.0347 M
Chromium	<0.9 mg/kg	TM181		18.8 M	14.9 M	13.9 M	22.8 M	18.3 M	13.3 M
Copper	<1.4 mg/kg	TM181		70.8 M	155 M	33.3 M	114 M	13.3 M	17.4 M
Lead	<0.7 mg/kg	TM181		392 M	64.6 M	26.5 M	1290 M	6.87 M	16.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	0.728 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		43.5 M	10.2 M	23.2 M	39.7 M	16.5 M	26.5 M
Selenium	<1 mg/kg	TM181		<1 #	1.11 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		45.4 #	21.1 #	14.2 #	26 #	20.2 #	14.9 #
Zinc	<1.9 mg/kg	TM181		704 M	239 M	83 M	571 M	50.2 M	72.5 M

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
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*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE487	TPE487	TPE487	TPE488	TPE488	TPE488
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296846	10296729	10296734	10296832	10296836	10296842
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	16	11	21	9.9	10
Soil Organic Matter (SOM)	<0.35 %	TM132					1.51 #		
pH	1 pH Units	TM133		5.1 M	5.47 M	6.31 M	6.49 M	6.78 M	6.9 M
Arsenic	<0.6 mg/kg	TM181		9.01 M	10.4 M	8.52 M	9.19 M	8.54 M	6.58 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	0.139 M	<0.02 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		13.2 M	16.2 M	11.8 M	15.5 M	12.2 M	9.82 M
Copper	<1.4 mg/kg	TM181		23.4 M	16.7 M	10.7 M	9.01 M	11.2 M	11.1 M
Lead	<0.7 mg/kg	TM181		10.8 M	12.2 M	17.4 M	14.1 M	7.37 M	8.64 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		13.2 M	23.9 M	22.8 M	15.2 M	23.4 M	19.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		14.6 #	20.8 #	12.5 #	17.5 #	14.4 #	9.59 #
Zinc	<1.9 mg/kg	TM181		41.9 M	50.7 M	71.2 M	38.1 M	61.2 M	74.9 M

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE489	TPE489	TPE490	TPE490	TPE490
			Depth (m)	0.50	1.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296819	10296827	10296725	10296781	10296815
			AGS Reference					
Moisture Content Ratio (% of as received sample)	%	PM024		17	8.6	15	9.6	13
Soil Organic Matter (SOM)	<0.35 %	TM132				1.35 #		
pH	1 pH Units	TM133		6.68 M	6.8 M	5.78 M	6.99 M	6.1 M
Arsenic	<0.6 mg/kg	TM181		11.5 M	6.89 M	9.83 M	5.51 M	5.6 M
Cadmium	<0.02 mg/kg	TM181		0.0715 M	<0.02 M	0.224 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		15.4 M	12.7 M	13.7 M	12.3 M	11.6 M
Copper	<1.4 mg/kg	TM181		31.4 M	12.9 M	23.2 M	9.65 M	11.2 M
Lead	<0.7 mg/kg	TM181		12.9 M	8.24 M	18.5 M	14.9 M	14.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		20.2 M	29.3 M	14.2 M	25.3 M	23.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.9 #	11.6 #	18.1 #	10.6 #	10.4 #
Zinc	<1.9 mg/kg	TM181		61.8 M	61.4 M	59.6 M	60.5 M	56.3 M

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1074	IP1074	IP1074	IP1075	IP1075	IP1075
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296742	10296746	10296752	10296756	10296761	10296766
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		113	104	108	112	96.5	99.6
Acenaphthene-d10 % recovery**	%	TM218		108	101	106	113	91.9	95.9
Phenanthrene-d10 % recovery**	%	TM218		102	97.4	101	113	90.5	94.1
Chrysene-d12 % recovery**	%	TM218		91	89.9	93.9	119	91.3	89
Perylene-d12 % recovery**	%	TM218		88.6	89.8	93	124	87.5	86.6
Naphthalene	<9 µg/kg	TM218		<9 @ M	<9 M	<9 M	395 @ M	15 @ M	21.2 M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 M	<12 M	2250 @ M	30 @ M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 M	<8 M	1900 @ M	17.2 @ M	<8 M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 M	<10 M	2580 @ M	18.7 @ M	<10 M
Phenanthrene	<15 µg/kg	TM218		116 @ M	54.7 M	63.4 M	20400 @ M	320 @ M	208 M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 M	<16 M	5840 @ M	43.9 @ M	19.6 M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	28.2 M	22.6 M	25800 @ M	375 @ M	126 M
Pyrene	<15 µg/kg	TM218		38.2 @ M	22.3 M	17.9 M	18100 @ M	266 @ M	79.8 M
Benz(a)anthracene	<14 µg/kg	TM218		57.4 @ M	<14 M	<14 M	10100 @ M	197 @ M	42.1 M
Chrysene	<10 µg/kg	TM218		61.3 @ M	30.6 M	34.5 M	7490 @ M	247 @ M	135 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		177 @ M	31.4 M	36.8 M	7740 @ M	209 @ M	112 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		32.5 @ M	<14 M	<14 M	4080 @ M	109 @ M	27 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 M	<15 M	7960 @ M	161 @ M	36.6 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 M	<18 M	4080 @ M	99.1 @ M	26.3 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 M	<23 M	1430 @ M	40.7 @ M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 M	<24 M	4270 @ M	121 @ M	38.5 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		483	167	175	124000	2270	873

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1076	IP1076	IP1076	IP1077	IP1077	IP1077
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296770	10296775	10296787	10296793	10296800	10296808
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		205	99.3	99.1	103	99.6	99.3
Acenaphthene-d10 % recovery**	%	TM218		201	96.1	96.1	101	95.1	96.3
Phenanthrene-d10 % recovery**	%	TM218		189	94.3	93.9	99	93	94.6
Chrysene-d12 % recovery**	%	TM218		186	90.6	96.2	107	86.4	91.5
Perylene-d12 % recovery**	%	TM218		176	92.1	95.1	112	82.1	92.8
Naphthalene	<9 µg/kg	TM218		333 @ M	13.8 M	16.8 @ M	273 @ M	<9 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		240 @ M	<12 M	<12 @ M	493 @ M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		54.3 @ M	<8 M	<8 @ M	597 @ M	<8 M	<8 M
Fluorene	<10 µg/kg	TM218		106 @ M	<10 M	<10 @ M	823 @ M	<10 M	<10 M
Phenanthrene	<15 µg/kg	TM218		1650 @ M	75.6 M	142 @ M	9840 @ M	<15 M	68.3 M
Anthracene	<16 µg/kg	TM218		554 @ M	<16 M	28.4 @ M	2140 @ M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		2850 @ M	81.7 M	204 @ M	22300 @ M	<17 M	63.7 M
Pyrene	<15 µg/kg	TM218		2260 @ M	63.8 M	147 @ M	14800 @ M	<15 M	44.9 M
Benz(a)anthracene	<14 µg/kg	TM218		2020 @ M	23.1 M	140 @ M	13400 @ M	<14 M	35.8 M
Chrysene	<10 µg/kg	TM218		2030 @ M	19.8 M	173 @ M	12600 @ M	<10 M	67.6 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		2960 @ M	19.5 M	210 @ M	17100 @ M	<15 M	75.5 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		1020 @ M	<14 M	77.7 @ M	6900 @ M	<14 M	19 M
Benzo(a)pyrene	<15 µg/kg	TM218		1540 @ M	<15 M	116 @ M	12200 @ M	<15 M	26.4 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		855 @ M	<18 M	73.8 @ M	7580 @ M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		353 @ M	<23 M	32.5 @ M	2990 @ M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		931 @ M	<24 M	90.4 @ M	7700 @ M	<24 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		19800	297	1450	132000	<118	401

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE487	TPE487	TPE487	TPE488	TPE488	TPE488
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296846	10296729	10296734	10296832	10296836	10296842
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		111	97	98.8	102	96.2	98.7
Acenaphthene-d10 % recovery**	%	TM218		111	94.6	93.8	102	91	94.2
Phenanthrene-d10 % recovery**	%	TM218		108	91.5	91.3	99.9	89.8	92.8
Chrysene-d12 % recovery**	%	TM218		99.1	94.2	92.8	103	89.9	87.1
Perylene-d12 % recovery**	%	TM218		100	92.5	89.6	111	88.6	83.6
Naphthalene	<9 µg/kg	TM218		300 @ M	26.3 @ M	11 @ M	13.3 @ M	12.2 @ M	<9 M
Acenaphthylene	<12 µg/kg	TM218		415 @ M	<12 @ M	<12 @ M	16.6 @ M	<12 @ M	<12 M
Acenaphthene	<8 µg/kg	TM218		290 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 M
Fluorene	<10 µg/kg	TM218		376 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 M
Phenanthrene	<15 µg/kg	TM218		2870 @ M	140 @ M	28.4 @ M	54.9 @ M	25.6 @ M	21.7 M
Anthracene	<16 µg/kg	TM218		943 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 M
Fluoranthene	<17 µg/kg	TM218		6150 @ M	41.1 @ M	<17 @ M	70.6 @ M	<17 @ M	<17 M
Pyrene	<15 µg/kg	TM218		4290 @ M	51.5 @ M	<15 @ M	68.2 @ M	<15 @ M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		2920 @ M	19.2 @ M	<14 @ M	20.8 @ M	<14 @ M	<14 M
Chrysene	<10 µg/kg	TM218		3830 @ M	24.1 @ M	<10 @ M	18.6 @ M	<10 @ M	19.6 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		4390 @ M	151 @ M	33.9 @ M	89.4 @ M	33.6 @ M	25.6 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		1780 @ M	23.2 @ M	<14 @ M	24.8 @ M	<14 @ M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		2740 @ M	21.3 @ M	<15 @ M	49.3 @ M	<15 @ M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		1770 @ M	<18 @ M	<18 @ M	32.5 @ M	<18 @ M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		677 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1810 @ M	28.8 @ M	<24 @ M	33 @ M	<24 @ M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		35500	527	<118	492	<118	<118

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE489	TPE489	TPE490	TPE490	TPE490
			Depth (m)	0.50	1.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296819	10296827	10296725	10296781	10296815
			AGS Reference					
Naphthalene-d8 % recovery**	%	TM218		102	98.7	102	103	104
Acenaphthene-d10 % recovery**	%	TM218		103	95.2	98	98.9	99.4
Phenanthrene-d10 % recovery**	%	TM218		101	93	93.8	97.3	98
Chrysene-d12 % recovery**	%	TM218		104	88.9	97	99.6	97.9
Perylene-d12 % recovery**	%	TM218		110	88.7	96.5	97.6	92.7
Naphthalene	<9 µg/kg	TM218		93.9 @ M	<9 M	<9 @ M	<9 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		118 @ M	<12 M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		11.6 @ M	<8 M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		73 @ M	<10 M	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		1330 @ M	37.6 M	18.6 @ M	25.8 @ M	24.1 @ M
Anthracene	<16 µg/kg	TM218		353 @ M	<16 M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		2250 @ M	<17 M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		1490 @ M	<15 M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		941 @ M	15.7 M	<14 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		719 @ M	23.1 M	<10 @ M	20.2 @ M	18.5 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		744 @ M	<15 M	<15 @ M	33.2 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		309 @ M	<14 M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		578 @ M	<15 M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		271 @ M	<18 M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		93.7 @ M	<23 M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		272 @ M	<24 M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		9650	<118	<118	<118	<118

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1074	IP1074	IP1074	IP1075	IP1075	IP1075
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296742	10296746	10296752	10296756	10296761	10296766
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		30 @	87 @	84 @	66 @	104 @	122 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1990 @ M	<176 @ M	319 @ M	3860 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		63.2 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		15.2 @ M	<12 @ M	<12 @ M	16.2 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		77.2 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		43.3 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		121 @	<9 @	<9 @	<36 @	<36 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		199 @	<24 @	<24 @	<96 @	<96 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		80.7 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		166 @	<40 @	<40 @	125 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		343 @	<40 @	93.5 @	624 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		562 @	<40 @	73 @	1580 @	63.3 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		11500	<100	1680	14500	4800	4210
Aliphatics >C16-C21	<100 µg/kg	TM173		34600	<100	1190	46300	8350	12800
Aliphatics >C21-C35	<100 µg/kg	TM173		136000	<100	1740	120000	18500	8530
Aliphatics >C35-C44	<100 µg/kg	TM173		49400	<100	<100	38900	8670	3070
Total Aliphatics >C12-C44	<100 µg/kg	TM173		232000	<100	4610	219000	40400	28600
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		63.2 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		364 @	<40 @	62.7 @	441 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		374 @	<40 @	49 @	1060 @	42.2 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		5150	166	<100	4860	1150	770
Aromatics >EC16-EC21	<100 µg/kg	TM173		40100	609	707	34600	4990	4870
Aromatics >EC21-EC35	<100 µg/kg	TM173		209000	2880	3840	152000	18400	12600
Aromatics >EC35-EC44	<100 µg/kg	TM173		78900	6320	5940	62400	10200	9530
Aromatics >EC40-EC44	<100 µg/kg	TM173		29800	3900	3520	27700	5010	5280
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		334000	9980	10500	254000	34700	27800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		568000	9980	15400	477000	75200	56500

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1076	IP1076	IP1076	IP1077	IP1077	IP1077
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296770	10296775	10296787	10296793	10296800	10296808
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		20 @	103 @	116 @	60 @	112 @	97 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	8560 @ M	9020 @ M	<176 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	17.5 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<36 @	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<96 @	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	158 @	945 @	<40 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	4800 @	3270 @	<40 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	209 @	1550 @	<40 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		918	<100	<100	73000	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		5660	<100	<100	144000	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		33500	15000	2510	230000	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		7480	3600	<100	70000	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		47600	18600	2510	517000	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	3220 @	2180 @	<40 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	139 @	1030 @	<40 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		774	138	<100	13800	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		4650	1180	268	94200	174	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		36300	12800	2390	359000	1970	3790
Aromatics >EC35-EC44	<100 µg/kg	TM173		22900	9430	<100	125000	4910	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		9420	5120	<100	52500	3060	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		64600	23600	2660	592000	7060	3790
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		112000	50800	14200	1110000	7060	3800

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE487	TPE487	TPE487	TPE488	TPE488	TPE488
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014
			SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	141031-75
			Lab Sample No.(s)	10296846	10296729	10296734	10296832	10296836	10296842
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		78 @	88 @	98 @	90 @	78 @	108 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	1530 @ M	<176 @ M	2520 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 @	<36 @	<36 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<24 @	<96 @	<96 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	73.2 @	<40 @	270 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	295 @	<40 @	520 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	569 @	<40 @	816 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	2440	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	4730	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	4010	9430	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	452	3160	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	4460	19800	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	197 @	<40 @	347 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	379 @	<40 @	544 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	412	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		599	425	1780	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		4740	3420	7840	925	<100	1020
Aromatics >EC35-EC44	<100 µg/kg	TM173		797	<100	3220	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	1320	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		6140	3840	13200	925	<100	1020
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		6140	9830	33100	3440	<100	4080

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	TPE489	TPE489	TPE490	TPE490	TPE490	
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Depth (m)	0.50	1.50	0.50	1.50	2.50	
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
		Date Sampled	27/10/2014	27/10/2014	27/10/2014	27/10/2014	27/10/2014	
		Sample Time	.	.	.	.	.	
		Date Received	31/10/2014	31/10/2014	31/10/2014	31/10/2014	31/10/2014	
		SDG Ref	141031-75	141031-75	141031-75	141031-75	141031-75	
(F)	Trigger breach confirmed	Lab Sample No.(s)	10296819	10296827	10296725	10296781	10296815	
1-5&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	97 @	74 @	83 @	69 @	69 @	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 @ M	<176 @ M	<176 @ M	<176 @ M	<176 @ M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	
Benzene	<10 µg/kg	TM089	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	
Toluene	<2 µg/kg	TM089	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36 @	<9 @	<36 @	<36 @	<36 @	
sum of detected BTEX by GC	<24 µg/kg	TM089	<96 @	<24 @	<96 @	<96 @	<96 @	
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	<100	5660	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	<100	<100	2570	
Aliphatics >C21-C35	<100 µg/kg	TM173	5230	<100	<100	<100	<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	5230	<100	<100	<100	8230	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	322	<100	<100	972	
Aromatics >EC16-EC21	<100 µg/kg	TM173	115	509	<100	<100	1380	
Aromatics >EC21-EC35	<100 µg/kg	TM173	3500	957	368	<100	2760	
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	3620	1790	368	<100	5100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	8850	1840	368	<100	13400	

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1074 0.50 SOLID 27/10/2014 00:00:00 04/11/2014 18:27:04 141031-75 10296742 TM048	14/11/14	Kevin Hughes	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1075 0.50 SOLID 27/10/2014 00:00:00 04/11/2014 20:43:52 141031-75 10296756 TM048	14/11/14	Kevin Hughes	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1076 0.50 SOLID 27/10/2014 00:00:00 03/11/2014 11:49:31 141031-75 10296770 TM048	14/11/14	Kevin Hughes	Loose fibres in soil	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1077 0.50 SOLID 27/10/2014 00:00:00 04/11/2014 18:32:01 141031-75 10296793 TM048	14/11/14	Kevin Hughes	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE487 0.50 SOLID 27/10/2014 00:00:00 03/11/2014 21:20:44 141031-75 10296846 TM048	14/11/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE488 0.50 SOLID 27/10/2014 00:00:00 03/11/2014 21:23:15 141031-75 10296832 TM048	14/11/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE489 0.50 SOLID 27/10/2014 00:00:00 04/11/2014 18:49:13 141031-75 10296819 TM048	14/11/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE490 0.50 SOLID 27/10/2014 00:00:00 04/11/2014 18:37:05 141031-75 10296725 TM048	14/11/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1074 0.50 SOLID 27/10/2014 00:00:00 08/12/2014 08:13:40 141031-75 10296742 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1075 0.50 SOLID 27/10/2014 00:00:00 08/12/2014 11:30:35 141031-75 10296756 TM 304	None (#)	Amphibole fibres found during PCM analysis.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1076 0.50 SOLID 27/10/2014 00:00:00 08/12/2014 11:04:57 141031-75 10296770 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1077 0.50 SOLID 27/10/2014 00:00:00 08/12/2014 08:11:27 141031-75 10296793 TM 304	Chrysotile (Loose fibres in soil.) (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10296742	10296746	10296752	10296756	10296761	10296766	10296770	10296775	10296787	10296793
Customer Sample Ref.	IP1074	IP1074	IP1074	IP1075	IP1075	IP1075	IP1076	IP1076	IP1076	IP1077
AGS Ref.										
Depth	0.50	1.50	2.50	0.50	1.50	2.50	0.50	1.50	2.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	17-Nov-2014			17-Nov-2014			17-Nov-2014			17-Nov-2014
Asbestos Quantification - Full	16-Dec-2014			16-Dec-2014			16-Dec-2014			16-Dec-2014
EPH CWG (Aliphatic) GC (S)	17-Nov-2014	12-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014	12-Nov-2014	18-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014
EPH CWG (Aromatic) GC (S)	17-Nov-2014	12-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014	12-Nov-2014	18-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014
GRO by GC-FID (S)	18-Nov-2014	17-Nov-2014	17-Nov-2014	15-Nov-2014	15-Nov-2014	18-Nov-2014	18-Nov-2014	15-Nov-2014	15-Nov-2014	15-Nov-2014
Metals in solid samples by OES	12-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014	14-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014
PAH by GCMS	12-Nov-2014	12-Nov-2014	12-Nov-2014	16-Nov-2014	15-Nov-2014	12-Nov-2014	19-Nov-2014	12-Nov-2014	15-Nov-2014	16-Nov-2014
pH	14-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014	13-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014
Sample description	03-Nov-2014	31-Oct-2014	31-Oct-2014	03-Nov-2014	03-Nov-2014	31-Oct-2014	04-Nov-2014	31-Oct-2014	03-Nov-2014	03-Nov-2014
Total Organic Carbon					05-Nov-2014					
TPH CWG GC (S)	18-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	15-Nov-2014	18-Nov-2014	18-Nov-2014

Lab Sample No(s)	10296800	10296808	10296729	10296734	10296846	10296832	10296836	10296842	10296819	10296827
Customer Sample Ref.	IP1077	IP1077	TPE487	TPE487	TPE487	TPE488	TPE488	TPE488	TPE489	TPE489
AGS Ref.										
Depth	1.50	2.50	1.50	2.50	0.50	0.50	1.50	2.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples					17-Nov-2014	17-Nov-2014			17-Nov-2014	
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014
GRO by GC-FID (S)	15-Nov-2014	15-Nov-2014	17-Nov-2014	15-Nov-2014	15-Nov-2014	15-Nov-2014	17-Nov-2014	18-Nov-2014	15-Nov-2014	18-Nov-2014
Metals in solid samples by OES	11-Nov-2014	07-Nov-2014	18-Nov-2014	19-Nov-2014	11-Nov-2014	11-Nov-2014	18-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014
PAH by GCMS	12-Nov-2014	12-Nov-2014	15-Nov-2014	15-Nov-2014	12-Nov-2014	16-Nov-2014	15-Nov-2014	12-Nov-2014	16-Nov-2014	12-Nov-2014
pH	03-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014	13-Nov-2014	13-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014	14-Nov-2014
Sample description	31-Oct-2014	31-Oct-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014	03-Nov-2014
Total Organic Carbon						12-Nov-2014				
TPH CWG GC (S)	15-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014

Lab Sample No(s)	10296725	10296781	10296815
Customer Sample Ref.	TPE490	TPE490	TPE490
AGS Ref.			
Depth	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	17-Nov-2014		
EPH CWG (Aliphatic) GC (S)	18-Nov-2014	18-Nov-2014	18-Nov-2014
EPH CWG (Aromatic) GC (S)	18-Nov-2014	18-Nov-2014	18-Nov-2014
GRO by GC-FID (S)	15-Nov-2014	15-Nov-2014	15-Nov-2014
Metals in solid samples by OES	11-Nov-2014	11-Nov-2014	11-Nov-2014
PAH by GCMS	17-Nov-2014	13-Nov-2014	13-Nov-2014
pH	14-Nov-2014	14-Nov-2014	14-Nov-2014
Sample description	04-Nov-2014	03-Nov-2014	03-Nov-2014
Total Organic Carbon	12-Nov-2014		
TPH CWG GC (S)	18-Nov-2014	18-Nov-2014	18-Nov-2014

SDG:	141031-75	**Location:**	Coed Darcy	**Order Number:**	cd0931
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295897
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
5	**Samples exceeded holding time before presevation was performed**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

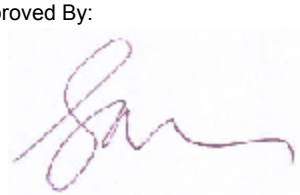
Date:	12 November 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141029-29
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	291632

We received 4 samples on Wednesday October 29, 2014 and 4 of these samples were scheduled for analysis which was completed on Wednesday November 12, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10276724	TPE552		0.50	21/10/2014
10276732	TPE552		1.50	21/10/2014
10276747	TPE552		2.50	21/10/2014
10276752	TPE552		3.50	21/10/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10276724	TPE552		0.50	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
			10276732	TPE552		1.50	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
			10276747	TPE552		2.50	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
			10276752	TPE552		3.50	250g Amber Jar (AL)
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 1					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 4					X
							X
							X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 4					X
							X
							X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 4					
							X
							X
							X
Metals in solid samples by OES	All	NDPs: 0 Tests: 4					X
							X
							X
PAH by GCMS	All	NDPs: 0 Tests: 4					X
							X
							X
pH	All	NDPs: 0 Tests: 4					
							X
							X
							X
Sample description	All	NDPs: 0 Tests: 4					X
							X
							X
Total Organic Carbon	All	NDPs: 0 Tests: 1					X
TPH CWG GC (S)	All	NDPs: 0 Tests: 4					X
							X
							X

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10276724	TPE552	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
10276732	TPE552	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Brick	Stones
10276747	TPE552	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
10276752	TPE552	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE552	TPE552	TPE552	TPE552		
			Depth (m)	0.50	1.50	2.50	3.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/10/2014	21/10/2014	21/10/2014	21/10/2014		
			Sample Time	.	.	.	.		
			Date Received	29/10/2014	29/10/2014	29/10/2014	29/10/2014		
			SDG Ref	141029-29	141029-29	141029-29	141029-29		
			Lab Sample No.(s)	10276724	10276732	10276747	10276752		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	24	20	20		
Soil Organic Matter (SOM)	<0.35 %	TM132		5.72 #					
pH	1 pH Units	TM133		7.15 M	8.15 M	6.69 M	7.48 M		
Arsenic	<0.6 mg/kg	TM181		75.1 M	23.1 M	14.4 M	5.81 M		
Cadmium	<0.02 mg/kg	TM181		0.883 M	0.835 M	0.529 M	0.261 M		
Chromium	<0.9 mg/kg	TM181		19.3 M	19.3 M	18.8 M	59.3 M		
Copper	<1.4 mg/kg	TM181		214 M	84.9 M	85 M	64.4 M		
Lead	<0.7 mg/kg	TM181		377 M	343 M	109 M	125 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.439 M	1.44 M	0.517 M		
Nickel	<0.2 mg/kg	TM181		37.6 M	45.1 M	40.7 M	29.3 M		
Selenium	<1 mg/kg	TM181		1.37 #	<1 #	<1 #	<1 #		
Vanadium	<0.2 mg/kg	TM181		22.7 #	47.9 #	57.7 #	133 #		
Zinc	<1.9 mg/kg	TM181		785 M	418 M	225 M	227 M		

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE552	TPE552	TPE552	TPE552		
			Depth (m)	0.50	1.50	2.50	3.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/10/2014	21/10/2014	21/10/2014	21/10/2014		
			Sample Time	.	.	.	.		
			Date Received	29/10/2014	29/10/2014	29/10/2014	29/10/2014		
			SDG Ref	141029-29	141029-29	141029-29	141029-29		
			Lab Sample No.(s)	10276724	10276732	10276747	10276752		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		102	105	78	94.5		
Acenaphthene-d10 % recovery**	%	TM218		103	106	91.6	96		
Phenanthrene-d10 % recovery**	%	TM218		99.3	97	89.7	91.2		
Chrysene-d12 % recovery**	%	TM218		99.3	94.5	80.3	89.5		
Perylene-d12 % recovery**	%	TM218		105	96.9	70	89.7		
Naphthalene	<9 µg/kg	TM218		77.2 @ M	321 @ M	26200 @ M	1010 @ M		
Acenaphthylene	<12 µg/kg	TM218		17 @ M	22.9 @ M	2000 @ M	164 @ M		
Acenaphthene	<8 µg/kg	TM218		18.5 @ M	18.4 @ M	3680 @ M	105 @ M		
Fluorene	<10 µg/kg	TM218		77.7 @ M	48.8 @ M	3550 @ M	172 @ M		
Phenanthrene	<15 µg/kg	TM218		324 @ M	1150 @ M	12000 @ M	2400 @ M		
Anthracene	<16 µg/kg	TM218		62.1 @ M	119 @ M	2210 @ M	226 @ M		
Fluoranthene	<17 µg/kg	TM218		280 @ M	625 @ M	3060 @ M	1230 @ M		
Pyrene	<15 µg/kg	TM218		372 @ M	947 @ M	9540 @ M	2090 @ M		
Benz(a)anthracene	<14 µg/kg	TM218		209 @ M	736 @ M	2680 @ M	970 @ M		
Chrysene	<10 µg/kg	TM218		130 @ M	542 @ M	9920 @ M	2480 @ M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		299 @ M	964 @ M	4650 @ M	1210 @ M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		124 @ M	315 @ M	1070 @ M	418 @ M		
Benzo(a)pyrene	<15 µg/kg	TM218		262 @ M	884 @ M	3030 @ M	1010 @ M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		152 @ M	472 @ M	211 @ M	448 @ M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		65.2 @ M	225 @ M	227 @ M	345 @ M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		207 @ M	667 @ M	2440 @ M	818 @ M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2680	8060	86400	15100		

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE552	TPE552	TPE552	TPE552		
			Depth (m)	0.50	1.50	2.50	3.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/10/2014	21/10/2014	21/10/2014	21/10/2014		
			Sample Time	.	.	.	.		
			Date Received	29/10/2014	29/10/2014	29/10/2014	29/10/2014		
			SDG Ref	141029-29	141029-29	141029-29	141029-29		
			Lab Sample No.(s)	10276724	10276732	10276747	10276752		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		81 @	63 @	92 @	81 @		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1500 @ M	<880 @ M	4320 @ M	1730 @ M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 @ M	<100 @ M	<100 @ M	<20 @ M		
Benzene	<10 µg/kg	TM089		<10 @ M	<200 @ M	<200 @ M	<40 @ M		
Toluene	<2 µg/kg	TM089		<2 @ M	<40 @ M	<40 @ M	13.8 @ M		
Ethylbenzene	<3 µg/kg	TM089		<3 @ M	<60 @ M	<60 @ M	<12 @ M		
m,p-Xylene	<6 µg/kg	TM089		<6 @ M	<120 @ M	<120 @ M	<24 @ M		
o-Xylene	<3 µg/kg	TM089		<3 @ M	<60 @ M	<60 @ M	<12 @ M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @		
Aliphatics >C5-C6	<10 µg/kg	TM089		<10 @	<200 @	<200 @	<40 @		
Aliphatics >C6-C8	<10 µg/kg	TM089		37.1 @	<200 @	217 @	118 @		
Aliphatics >C8-C10	<10 µg/kg	TM089		223 @	<200 @	247 @	273 @		
Aliphatics >C10-C12	<10 µg/kg	TM089		645 @	<200 @	2160 @	654 @		
Aliphatics >C12-C16	<100 µg/kg	TM173		106000	8160	81300	72600		
Aliphatics >C16-C21	<100 µg/kg	TM173		146000	33900	324000	275000		
Aliphatics >C21-C35	<100 µg/kg	TM173		282000	229000	3050000	1640000		
Aliphatics >C35-C44	<100 µg/kg	TM173		71700	68000	689000	518000		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		605000	339000	4150000	2500000		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10 @	<200 @	<200 @	<40 @		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10 @	<200 @	<200 @	<40 @		
Aromatics >EC8-EC10	<10 µg/kg	TM089		151 @	<200 @	<200 @	201 @		
Aromatics >EC10-EC12	<10 µg/kg	TM089		430 @	<200 @	1440 @	436 @		
Aromatics >EC12-EC16	<100 µg/kg	TM173		10200	1740	9820	5570		
Aromatics >EC16-EC21	<100 µg/kg	TM173		64000	10700	221000	84800		
Aromatics >EC21-EC35	<100 µg/kg	TM173		211000	165000	4980000	1610000		
Aromatics >EC35-EC44	<100 µg/kg	TM173		83400	108000	1600000	574000		
Aromatics >EC40-EC44	<100 µg/kg	TM173		32300	42600	450000	188000		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		369000	286000	6810000	2280000		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		975000	625000	11000000	4780000		

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE552 0.50 SOLID 21/10/2014 00:00:00 30/10/2014 12:02:32 141029-29 10276724 TM048	7/11/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10276724	10276732	10276747	10276752
Customer Sample Ref.	TPE552	TPE552	TPE552	TPE552
AGS Ref.				
Depth	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	07-Nov-2014			
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	07-Nov-2014	10-Nov-2014	11-Nov-2014	07-Nov-2014
Metals in solid samples by OES	10-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014
PAH by GCMS	09-Nov-2014	09-Nov-2014	10-Nov-2014	10-Nov-2014
pH	07-Nov-2014	07-Nov-2014	31-Oct-2014	31-Oct-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon	11-Nov-2014			
TPH CWG GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014

SDG:	141029-29	**Location:**	Coed Darcy	**Order Number:**	CD0918
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	291632
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
5	**Samples exceeded holding time before presevation was performed**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
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Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date:	12 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141028-49
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	295450

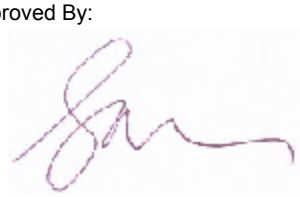
This report has been revised and directly supersedes 291909 in its entirety.

We received 34 samples on Tuesday October 28, 2014 and 34 of these samples were scheduled for analysis which was completed on Friday December 12, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10272700	TPE481		0.50	22/10/2014
10272706	TPE481		1.50	22/10/2014
10272715	TPE481		2.50	22/10/2014
10272719	TPE481		3.50	22/10/2014
10272723	TPE482		0.50	22/10/2014
10272727	TPE482		1.00	22/10/2014
10272731	TPE482		2.00	22/10/2014
10272740	TPE482		3.00	22/10/2014
10272750	TPE482		4.00	22/10/2014
10272754	TPE483		0.50	22/10/2014
10272758	TPE483		1.50	22/10/2014
10272769	TPE483		2.50	22/10/2014
10272773	TPE483		3.50	22/10/2014
10272782	TPE484		0.50	22/10/2014
10272790	TPE484		1.50	22/10/2014
10272795	TPE484		2.50	22/10/2014
10272799	TPE486		0.50	22/10/2014
10272803	TPE486		1.50	22/10/2014
10272632	TPE486		2.50	22/10/2014
10272641	TPE486		3.50	22/10/2014
10272628	TPE543		0.50	22/10/2014
10272688	TPE543		1.50	22/10/2014
10272744	TPE543		2.50	22/10/2014
10272777	TPE543		3.50	22/10/2014
10272671	TPE544		0.50	22/10/2014
10272675	TPE544		1.50	22/10/2014
10272679	TPE544		2.50	22/10/2014
10272692	TPE544		3.50	22/10/2014
10272696	TPE544		4.50	22/10/2014
10272645	TPE545		0.50	22/10/2014
10272649	TPE545		1.50	22/10/2014
10272659	TPE545		2.50	22/10/2014
10272663	TPE545		3.50	22/10/2014
10272667	TPE545		4.50	22/10/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10272700	TPE481		0.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272706	TPE481		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272715	TPE481		2.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272719	TPE481		3.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272723	TPE482		0.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272727	TPE482		1.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272731	TPE482		2.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272740	TPE482		3.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272750	TPE482		4.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272754	TPE483		0.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272758	TPE483		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272769	TPE483		2.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272773	TPE483		3.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10272782	TPE484		0.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8		X			X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 6		X			X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 34		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		
Sample description	All	NDPs: 0 Tests: 31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 5	X								X												X											
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10272782	TPE484		0.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272790	TPE484		1.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272795	TPE484		2.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272799	TPE486		0.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272803	TPE486		1.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272632	TPE486		2.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272641	TPE486		3.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272628	TPE543		0.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272688	TPE543		1.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272744	TPE543		2.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272777	TPE543		3.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272671	TPE544		0.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272675	TPE544		1.50	400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
			10272679	TPE544		2.50	400g Tub (ALE214)
							250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8	X				X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 6	X				X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34		X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34		X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34		X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 34		X	X	X	X
pH	All	NDPs: 0 Tests: 34	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 31		X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 5					
TPH CWG GC (S)	All	NDPs: 0 Tests: 34		X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10272679	TPE544		2.50	60g VOC (ALE215)
			10272692	TPE544		3.50	250g Amber Jar (AL
			10272696	TPE544		4.50	400g Tub (ALE214)
			10272645	TPE545		0.50	60g VOC (ALE215)
			10272649	TPE545		1.50	250g Amber Jar (AL
			10272659	TPE545		2.50	400g Tub (ALE214)
			10272663	TPE545		3.50	60g VOC (ALE215)
			10272667	TPE545		4.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8					X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 6					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34	X		X		X		X		X		X		X		X		X		X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 34		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 34			X		X		X		X		X		X		X		X		X	X
Sample description	All	NDPs: 0 Tests: 31		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 5					X															
TPH CWG GC (S)	All	NDPs: 0 Tests: 34		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10272700	TPE481	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Oil/Petroleum	Vegetation
10272706	TPE481	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
10272715	TPE481	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
10272719	TPE481	3.50	Black	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
10272723	TPE482	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Tar
10272727	TPE482	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10272731	TPE482	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10272740	TPE482	3.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10272750	TPE482	4.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10272754	TPE483	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
10272758	TPE483	1.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	None	None
10272769	TPE483	2.50	Grey	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10272773	TPE483	3.50	Black	Loamy Sand	0.1 - 2 mm	Stones	None
10272782	TPE484	0.50	Black	Gravel	2 - 10 mm	Coal fragments	Stones
10272790	TPE484	1.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10272795	TPE484	2.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10272632	TPE486	2.50	Grey	Sandy Loam	0.1 - 2 mm	Stones	None
10272641	TPE486	3.50	Grey	Loamy Sand	0.1 - 2 mm	Stones	None
10272799	TPE486	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10272803	TPE486	1.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	None	None
10272628	TPE543	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10272688	TPE543	1.50	Black	Sand	0.1 - 2 mm	Stones	None
10272744	TPE543	2.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
10272777	TPE543	3.50	Grey	Sandy Loam	0.1 - 2 mm	Stones	None
10272675	TPE544	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
10272679	TPE544	2.50	Black	Sand	0.1 - 2 mm	Stones	None
10272692	TPE544	3.50	Cream	Sandy Loam	0.1 - 2 mm	Stones	None
10272696	TPE544	4.50	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
10272645	TPE545	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
10272649	TPE545	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Plastic
10272659	TPE545	2.50	Black	Shale	0.1 - 2 mm	Stones	Vegetation
10272663	TPE545	3.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	None
10272667	TPE545	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE481	TPE481	TPE481	TPE481	TPE482	TPE482
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272700	10272706	10272715	10272719	10272723	10272727
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		18	17	16	16	17	28
Soil Organic Matter (SOM)	<0.35 %	TM132		11.1 #				3.4 #	
pH	1 pH Units	TM133		7.56 M	6.16 M	5.69 M	5.06 M	6.65 M	7.95 M
Arsenic	<0.6 mg/kg	TM181		38.9 M	11 M	23.4 M	7.54 M	11.7 M	26.7 M
Cadmium	<0.02 mg/kg	TM181		0.378 M	<0.02 M	<0.02 M	<0.02 M	<0.02 M	0.978 M
Chromium	<0.9 mg/kg	TM181		15.9 M	13.8 M	12 M	6.66 M	18.5 M	66.3 M
Copper	<1.4 mg/kg	TM181		183 M	29.4 M	24.5 M	15.4 M	19.7 M	105 M
Lead	<0.7 mg/kg	TM181		175 M	14.4 M	16.6 M	16.4 M	27.5 M	247 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.1 M	18.4 M	12.3 M	10.4 M	17.2 M	43.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.2 #	<1 #
Vanadium	<0.2 mg/kg	TM181		19.6 #	15.8 #	13.4 #	8.14 #	23.2 #	125 #
Zinc	<1.9 mg/kg	TM181		1120 M	55.5 M	35.5 M	26.3 M	81.9 M	468 M

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE482	TPE482	TPE482	TPE483	TPE483	TPE483
			Depth (m)	2.00	3.00	4.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272731	10272740	10272750	10272754	10272758	10272769
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	11	12	8.8	19	9.9
Soil Organic Matter (SOM)	<0.35 %	TM132					35.5 #		
pH	1 pH Units	TM133		6.66 M	6.73 M	6.97 M	7.49 M	7.49 M	6.9 M
Arsenic	<0.6 mg/kg	TM181		7.67 M	7.78 M	8.5 M	28.6 M	10.3 M	9.52 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.0381 M	0.0346 M	0.974 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		14.9 M	13.5 M	13.9 M	19.3 M	19.6 M	15.8 M
Copper	<1.4 mg/kg	TM181		14.3 M	13.4 M	17 M	95.9 M	10.6 M	23.8 M
Lead	<0.7 mg/kg	TM181		14.6 M	12.7 M	15.1 M	340 M	13.8 M	22.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	0.211 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		24.6 M	27.4 M	28.6 M	51 M	14.1 M	34.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.48 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.6 #	15.3 #	16.8 #	33.5 #	25 #	19.4 #
Zinc	<1.9 mg/kg	TM181		69 M	65.9 M	74.5 M	370 M	43 M	80 M

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE483	TPE484	TPE484	TPE484	TPE486	TPE486
			Depth (m)	3.50	0.50	1.50	2.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272773	10272782	10272790	10272795	10272799	10272803
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	26	17	13	13	16
pH	1 pH Units	TM133		7.24 M	8.19 #	7.02 M	6.43 M	8 M	5.58 M
Arsenic	<0.6 mg/kg	TM181		16 M	28 #	8.99 M	12.5 M	20.4 M	7.44 M
Cadmium	<0.02 mg/kg	TM181		0.248 M	0.507 #	<0.02 M	0.077 M	0.283 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		16.1 M	15.8 #	20.1 M	15.9 M	18.6 M	22.4 M
Copper	<1.4 mg/kg	TM181		38.2 M	72.3 #	9.02 M	27.2 M	76.7 M	17 M
Lead	<0.7 mg/kg	TM181		47.6 M	174 #	12.6 M	27.7 M	180 M	15.6 M
Mercury	<0.14 mg/kg	TM181		0.149 M	<0.14 #	<0.14 M	<0.14 M	0.203 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		32.4 M	43.8 #	15.5 M	29.5 M	31.8 M	20 M
Selenium	<1 mg/kg	TM181		<1 #	1.14 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		26.1 #	37.6 #	23.8 #	19.5 #	19.3 #	26 #
Zinc	<1.9 mg/kg	TM181		105 M	261 #	37.8 M	99.6 M	308 M	60 M

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE486	TPE486	TPE543	TPE543	TPE543	TPE543
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272632	10272641	10272628	10272688	10272744	10272777
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	9.3	14	21	21	15
Soil Organic Matter (SOM)	<0.35 %	TM132				12.9 #			
pH	1 pH Units	TM133		6.69 M	7.31 M	5.42 M	5.81 M	5.7 M	5.84 M
Arsenic	<0.6 mg/kg	TM181		8.49 M	7.39 M	20.6 M	11.3 M	11.6 M	12.8 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	0.222 M	0.0585 M	0.0642 M	0.0502 M
Chromium	<0.9 mg/kg	TM181		16 M	12 M	16.5 M	11.6 M	18.9 M	13.4 M
Copper	<1.4 mg/kg	TM181		20.9 M	10.6 M	45.3 M	43.2 M	50 M	22.4 M
Lead	<0.7 mg/kg	TM181		15.3 M	12.4 M	84.8 M	11.6 M	22.6 M	19.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		38.1 M	26.5 M	30 M	34.6 M	14.9 M	34 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.09 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18.6 #	14.1 #	23.9 #	35 #	21.4 #	16.9 #
Zinc	<1.9 mg/kg	TM181		76.4 M	59.4 M	129 M	62.6 M	43.7 M	79.4 M

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE544	TPE544	TPE544	TPE544	TPE544	TPE545
			Depth (m)	0.50	1.50	2.50	3.50	4.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272671	10272675	10272679	10272692	10272696	10272645
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	16	29	13	14	17
Soil Organic Matter (SOM)	<0.35 %	TM132							7.03 #
pH	1 pH Units	TM133		7.25 M	5.68 M	5.77 M	5.53 M	6.38 M	7.87 M
Arsenic	<0.6 mg/kg	TM181			33.7 M	24.2 M	14.2 M	8.32 M	29.8 M
Cadmium	<0.02 mg/kg	TM181			0.658 M	0.0898 M	<0.02 M	<0.02 M	0.791 M
Chromium	<0.9 mg/kg	TM181			16.4 M	10.9 M	13.7 M	15.6 M	48.9 M
Copper	<1.4 mg/kg	TM181			53.5 M	37.6 M	12.3 M	23.1 M	107 M
Lead	<0.7 mg/kg	TM181			34.5 M	14.1 M	11.2 M	18.1 M	292 M
Mercury	<0.14 mg/kg	TM181			<0.14 M	<0.14 M	<0.14 M	<0.14 M	1.32 M
Nickel	<0.2 mg/kg	TM181			15.7 M	40.8 M	35.2 M	24.4 M	27.4 M
Selenium	<1 mg/kg	TM181			<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181			20.5 #	29.5 #	15.6 #	17.7 #	32 #
Zinc	<1.9 mg/kg	TM181			114 M	38.8 M	65.6 M	70.1 M	786 M

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE545	TPE545	TPE545	TPE545		
			Depth (m)	1.50	2.50	3.50	4.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014		
			Sample Time	.	.	.	.		
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014		
			SDG Ref	141028-49	141028-49	141028-49	141028-49		
			Lab Sample No.(s)	10272649	10272659	10272663	10272667		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	29	23	17		
pH	1 pH Units	TM133		7.63 M	7.8 #	5.85 M	6.8 M		
Arsenic	<0.6 mg/kg	TM181		25 M	14.6 #	21.2 M	17 M		
Cadmium	<0.02 mg/kg	TM181		0.419 M	0.208 #	0.342 M	<0.02 M		
Chromium	<0.9 mg/kg	TM181		99.7 M	17.1 #	15 M	19.1 M		
Copper	<1.4 mg/kg	TM181		86.3 M	59 #	41.2 M	36.9 M		
Lead	<0.7 mg/kg	TM181		161 M	67.4 #	17.1 M	65.4 M		
Mercury	<0.14 mg/kg	TM181		0.356 M	0.241 #	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		23.9 M	39.1 #	15.3 M	30 M		
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #		
Vanadium	<0.2 mg/kg	TM181		68.2 #	36.8 #	20.6 #	19.8 #		
Zinc	<1.9 mg/kg	TM181		516 M	195 #	55.2 M	141 M		

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE481	TPE481	TPE481	TPE481	TPE482	TPE482
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272700	10272706	10272715	10272719	10272723	10272727
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		91	98.9	94.9	92.4	127	107
Acenaphthene-d10 % recovery**	%	TM218		85.7	99.2	94.8	91.9	112	110
Phenanthrene-d10 % recovery**	%	TM218		83.4	95.1	91.5	89.8	99.1	103
Chrysene-d12 % recovery**	%	TM218		91	81.3	91.6	89.1	82.3	97.9
Perylene-d12 % recovery**	%	TM218		93.9	76.7	93.7	93.2	75.8	97.6
Naphthalene	<9 µg/kg	TM218		546 M	<9 @ M	108 @ M	63.4 @ M	56.7 M	257 @ M
Acenaphthylene	<12 µg/kg	TM218		55.9 M	<12 @ M	<12 @ M	<12 @ M	<24 M	61.1 @ M
Acenaphthene	<8 µg/kg	TM218		85.5 M	<8 @ M	30.1 @ M	<8 @ M	<16 M	60.6 @ M
Fluorene	<10 µg/kg	TM218		128 M	<10 @ M	21.3 @ M	<10 @ M	<20 M	110 @ M
Phenanthrene	<15 µg/kg	TM218		702 M	27.6 @ M	133 @ M	57.9 @ M	142 M	1630 @ M
Anthracene	<16 µg/kg	TM218		191 M	<16 @ M	19.2 @ M	22.1 @ M	<32 M	407 @ M
Fluoranthene	<17 µg/kg	TM218		1070 M	<17 @ M	48.8 @ M	34.4 @ M	64 M	1690 @ M
Pyrene	<15 µg/kg	TM218		869 M	<15 @ M	29.9 @ M	33.1 @ M	54.1 M	1380 @ M
Benz(a)anthracene	<14 µg/kg	TM218		636 M	<14 @ M	20.5 @ M	<14 @ M	54.1 M	758 @ M
Chrysene	<10 µg/kg	TM218		933 M	<10 @ M	86.9 @ M	21.6 @ M	65.4 M	1180 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1490 M	<15 @ M	61.3 @ M	30.3 @ M	59.3 M	1050 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		566 M	<14 @ M	<14 @ M	<14 @ M	<28 M	418 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		991 M	<15 @ M	<15 @ M	<15 @ M	<30 M	789 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		748 M	<18 @ M	<18 @ M	<18 @ M	<36 M	479 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		254 M	<23 @ M	<23 @ M	<23 @ M	<46 M	196 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		962 M	<24 @ M	<24 @ M	<24 @ M	<48 M	596 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		10200	<118	560	263	496	11100

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE482	TPE482	TPE482	TPE483	TPE483	TPE483
			Depth (m)	2.00	3.00	4.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272731	10272740	10272750	10272754	10272758	10272769
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93.9	97.6	93.1	101	95.3	93.3
Acenaphthene-d10 % recovery**	%	TM218		93.6	96.1	94	104	95.2	93.3
Phenanthrene-d10 % recovery**	%	TM218		91.8	91.1	92.9	98.7	93.7	91.9
Chrysene-d12 % recovery**	%	TM218		89.7	76.2	89.7	97.9	86.5	87.3
Perylene-d12 % recovery**	%	TM218		93.8	68.1	93.7	96.5	84.1	86.6
Naphthalene	<9 µg/kg	TM218		<9 @ M	<9 @ M	10.8 @ M	154 @ M	<9 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	326 @ M	<12 @ M	22.1 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	561 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	453 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		56.8 @ M	36.7 @ M	72.9 @ M	4920 @ M	<15 @ M	100 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	860 @ M	<16 @ M	48.3 @ M
Fluoranthene	<17 µg/kg	TM218		98.9 @ M	<17 @ M	33.8 @ M	10600 @ M	<17 @ M	458 @ M
Pyrene	<15 µg/kg	TM218		71.6 @ M	<15 @ M	28.1 @ M	7170 @ M	<15 @ M	329 @ M
Benz(a)anthracene	<14 µg/kg	TM218		65 @ M	<14 @ M	19 @ M	6970 @ M	<14 @ M	219 @ M
Chrysene	<10 µg/kg	TM218		71.2 @ M	18.5 @ M	46.7 @ M	7090 @ M	<10 @ M	264 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		94.6 @ M	21.5 @ M	55.8 @ M	9770 @ M	<15 @ M	373 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		33.5 @ M	<14 @ M	<14 @ M	3740 @ M	<14 @ M	109 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		54.6 @ M	<15 @ M	<15 @ M	6460 @ M	<15 @ M	152 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		37 @ M	<18 @ M	<18 @ M	3890 @ M	<18 @ M	90.9 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	1840 @ M	<23 @ M	39.7 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		40.5 @ M	<24 @ M	<24 @ M	3970 @ M	<24 @ M	108 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		624	<118	267	68700	<118	2310

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE483	TPE484	TPE484	TPE484	TPE486	TPE486
			Depth (m)	3.50	0.50	1.50	2.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272773	10272782	10272790	10272795	10272799	10272803
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		95.4	97.1	96.9	94.5	99.1	96.3
Acenaphthene-d10 % recovery**	%	TM218		96.2	99.2	97.7	93.8	101	95.3
Phenanthrene-d10 % recovery**	%	TM218		94.8	87.5	95.7	92.5	94.8	93
Chrysene-d12 % recovery**	%	TM218		95.7	77.5	89.4	87	96.8	87.1
Perylene-d12 % recovery**	%	TM218		97.2	73.5	88.3	83.8	96.8	83.8
Naphthalene	<9 µg/kg	TM218		69.1 @ M	88.1 @ #	<9 @ M	<9 @ M	110 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		56.3 @ M	43.3 @ #	<12 @ M	<12 @ M	351 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		126 @ M	<8 @ #	<8 @ M	<8 @ M	79.1 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		110 @ M	19.1 @ #	<10 @ M	<10 @ M	131 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		1130 @ M	459 @ #	<15 @ M	38.4 @ M	1320 @ M	25.1 @ M
Anthracene	<16 µg/kg	TM218		279 @ M	131 @ #	<16 @ M	<16 @ M	523 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		2420 @ M	366 @ #	<17 @ M	21.4 @ M	3410 @ M	28.5 @ M
Pyrene	<15 µg/kg	TM218		1730 @ M	307 @ #	<15 @ M	17.7 @ M	2660 @ M	25.7 @ M
Benz(a)anthracene	<14 µg/kg	TM218		1640 @ M	188 @ #	<14 @ M	<14 @ M	1890 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		1720 @ M	417 @ #	<10 @ M	28.4 @ M	1910 @ M	27.3 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		2660 @ M	255 @ #	<15 @ M	41.2 @ M	2730 @ M	42.4 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		911 @ M	92 @ #	<14 @ M	<14 @ M	1030 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		1500 @ M	147 @ #	<15 @ M	<15 @ M	1980 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		834 @ M	99.4 @ #	<18 @ M	<18 @ M	1250 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		341 @ M	58.8 @ #	<23 @ M	<23 @ M	456 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		932 @ M	143 @ #	<24 @ M	<24 @ M	1340 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		16500	2820	<118	147	21200	149

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE486	TPE486	TPE543	TPE543	TPE543	TPE543
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272632	10272641	10272628	10272688	10272744	10272777
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		94.4	93.4	97.6	114	96.6	93.9
Acenaphthene-d10 % recovery**	%	TM218		94.6	91.3	99.4	111	94.6	94.5
Phenanthrene-d10 % recovery**	%	TM218		93.4	90.1	93.5	89.3	92.4	90.1
Chrysene-d12 % recovery**	%	TM218		87.5	86.6	92.2	55.6	86.5	82.6
Perylene-d12 % recovery**	%	TM218		86.1	85.5	90.1	35	82.2	81.3
Naphthalene	<9 µg/kg	TM218		10.6 @ M	<9 @ M	136 @ M	707 @ M	<9 @ M	35.2 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	725 @ M	159 @ M	<12 @ M	287 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	83.6 @ M	10.9 @ M	<8 @ M	23.1 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	204 @ M	39.5 @ M	<10 @ M	93.4 @ M
Phenanthrene	<15 µg/kg	TM218		64.2 @ M	<15 @ M	1240 @ M	342 @ M	26 @ M	1300 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	600 @ M	22.2 @ M	<16 @ M	464 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	2370 @ M	73.9 @ M	<17 @ M	3370 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	1780 @ M	73.1 @ M	<15 @ M	2110 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	<14 @ M	1080 @ M	18.4 @ M	<14 @ M	1470 @ M
Chrysene	<10 µg/kg	TM218		34.1 @ M	<10 @ M	1130 @ M	74 @ M	<10 @ M	1280 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		41.2 @ M	23.2 @ M	1700 @ M	45.1 @ M	<15 @ M	1070 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	613 @ M	<14 @ M	<14 @ M	557 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	1120 @ M	<15 @ M	<15 @ M	1020 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	914 @ M	<18 @ M	<18 @ M	552 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	302 @ M	<23 @ M	<23 @ M	192 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	1260 @ M	<24 @ M	<24 @ M	553 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		150	<118	15300	1560	<118	14400

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE544	TPE544	TPE544	TPE544	TPE544	TPE545
			Depth (m)	0.50	1.50	2.50	3.50	4.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272671	10272675	10272679	10272692	10272696	10272645
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		96	96.7	46.3	97.5	95	108
Acenaphthene-d10 % recovery**	%	TM218		95.1	97.7	44.4	98.5	95.2	105
Phenanthrene-d10 % recovery**	%	TM218		91.5	94.7	24.6	96.5	93.1	102
Chrysene-d12 % recovery**	%	TM218		96.2	95	12	86.1	86.6	103
Perylene-d12 % recovery**	%	TM218		107	97.1	4.85	86.2	83.5	109
Naphthalene	<9 µg/kg	TM218		57.8 M	106 @ M	397 @ M	16.6 @ M	11.7 @ M	106 @ M
Acenaphthylene	<12 µg/kg	TM218		84.7 M	45.2 @ M	<12 @ M	<12 @ M	<12 @ M	39.8 @ M
Acenaphthene	<8 µg/kg	TM218		28.2 M	24.5 @ M	<8 @ M	<8 @ M	<8 @ M	67.3 @ M
Fluorene	<10 µg/kg	TM218		116 M	98.9 @ M	<10 @ M	22.3 @ M	<10 @ M	88.4 @ M
Phenanthrene	<15 µg/kg	TM218		584 M	413 @ M	347 @ M	104 @ M	32.6 @ M	931 @ M
Anthracene	<16 µg/kg	TM218		165 M	98.5 @ M	<16 @ M	<16 @ M	<16 @ M	105 @ M
Fluoranthene	<17 µg/kg	TM218		703 M	334 @ M	50.7 @ M	39.6 @ M	<17 @ M	1160 @ M
Pyrene	<15 µg/kg	TM218		812 M	360 @ M	26.7 @ M	33.6 @ M	<15 @ M	1120 @ M
Benz(a)anthracene	<14 µg/kg	TM218		437 M	138 @ M	<14 @ M	<14 @ M	<14 @ M	550 @ M
Chrysene	<10 µg/kg	TM218		414 M	217 @ M	27.7 @ M	<10 @ M	<10 @ M	1050 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		454 M	202 @ M	23.7 @ M	67.2 @ M	31.8 @ M	1170 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		229 M	73.6 @ M	<14 @ M	<14 @ M	<14 @ M	504 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		428 M	158 @ M	<15 @ M	<15 @ M	<15 @ M	933 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		267 M	95.7 @ M	<18 @ M	<18 @ M	<18 @ M	637 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		85.8 M	40.2 @ M	<23 @ M	<23 @ M	<23 @ M	234 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		325 M	116 @ M	<24 @ M	<24 @ M	<24 @ M	814 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5190	2520	872	283	<118	9510

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE545	TPE545	TPE545	TPE545		
			Depth (m)	1.50	2.50	3.50	4.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014		
			Sample Time	.	.	.	.		
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014		
			SDG Ref	141028-49	141028-49	141028-49	141028-49		
			Lab Sample No.(s)	10272649	10272659	10272663	10272667		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	128	97.9	94.9		
Acenaphthene-d10 % recovery**	%	TM218		107	131	96.9	96.8		
Phenanthrene-d10 % recovery**	%	TM218		103	118	95.3	93.8		
Chrysene-d12 % recovery**	%	TM218		97.5	101	91.1	87.7		
Perylene-d12 % recovery**	%	TM218		102	86.5	92.1	87.4		
Naphthalene	<9 µg/kg	TM218		70 M	1500 @ #	<9 @ M	28.9 @ M		
Acenaphthylene	<12 µg/kg	TM218		33.4 M	288 @ #	<12 @ M	<12 @ M		
Acenaphthene	<8 µg/kg	TM218		47.1 M	15.6 @ #	<8 @ M	9.68 @ M		
Fluorene	<10 µg/kg	TM218		64.1 M	73.6 @ #	<10 @ M	<10 @ M		
Phenanthrene	<15 µg/kg	TM218		536 M	600 @ #	<15 @ M	127 @ M		
Anthracene	<16 µg/kg	TM218		135 M	49.4 @ #	<16 @ M	<16 @ M		
Fluoranthene	<17 µg/kg	TM218		647 M	151 @ #	<17 @ M	122 @ M		
Pyrene	<15 µg/kg	TM218		655 M	153 @ #	<15 @ M	117 @ M		
Benz(a)anthracene	<14 µg/kg	TM218		390 M	63.1 @ #	<14 @ M	75.8 @ M		
Chrysene	<10 µg/kg	TM218		456 M	171 @ #	<10 @ M	141 @ M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		717 M	181 @ #	<15 @ M	197 @ M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		209 M	29.1 @ #	<14 @ M	62 @ M		
Benzo(a)pyrene	<15 µg/kg	TM218		446 M	53.9 @ #	<15 @ M	83.3 @ M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		284 M	33.3 @ #	<18 @ M	60.6 @ M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		107 M	<23 @ #	<23 @ M	<23 @ M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		383 M	44.5 @ #	<24 @ M	86.3 @ M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5180	3410	<118	1110		

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE481	TPE481	TPE481	TPE481	TPE482	TPE482
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272700	10272706	10272715	10272719	10272723	10272727
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		77 @	100 @	92 @	89 @	108 @	77 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		11800 @ M	4470 @ M	77200 @ M	116000 @ M	1180 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	100 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		20.7 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	65.5 @	73.8 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		289 @	212 @	1180 @	2240 @	40.8 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		2290 @	820 @	18400 @	26100 @	158 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		4550 @	1720 @	27000 @	42300 @	517 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		68600	5630	61600	37300	19300	6920
Aliphatics >C16-C21	<100 µg/kg	TM173		17100	1770	10600	2020	2870	19300
Aliphatics >C21-C35	<100 µg/kg	TM173		191000	<100	12300	<100	18300	106000
Aliphatics >C35-C44	<100 µg/kg	TM173		60200	<100	4520	<100	5620	58200
Total Aliphatics >C12-C44	<100 µg/kg	TM173		337000	7410	89000	39400	46100	190000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		1550 @	547 @	12300 @	17400 @	110 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		3030 @	1150 @	18000 @	28200 @	344 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		9560	9000	131000	70100	<100	2930
Aromatics >EC16-EC21	<100 µg/kg	TM173		18000	12000	126000	75000	1270	11600
Aromatics >EC21-EC35	<100 µg/kg	TM173		128000	12400	133000	68700	24900	107000
Aromatics >EC35-EC44	<100 µg/kg	TM173		64100	3680	31700	9750	35600	131000
Aromatics >EC40-EC44	<100 µg/kg	TM173		21600	1290	11100	2460	15500	57600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		219000	37100	421000	224000	61700	252000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		568000	49000	587000	379000	109000	442000

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE482	TPE482	TPE482	TPE483	TPE483	TPE483
			Depth (m)	2.00	3.00	4.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272731	10272740	10272750	10272754	10272758	10272769
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		104 @	104 @	98 @	90 @	112 @	97 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		93200 @ M	5510 @ M	26300 @ M	<880 @ M	<176 @ M	224 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<100 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<200 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<40 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<120 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		429 @	52.6 @	129 @	<200 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		8740 @	383 @	2050 @	<200 @	<40 @	46.6 @
Aliphatics >C10-C12	<10 µg/kg	TM089		46900 @	2880 @	13600 @	<200 @	<40 @	77.7 @
Aliphatics >C12-C16	<100 µg/kg	TM173		64400	12100	66400	9970	<100	874
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	1430	27100	<100	6230
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	3160	84200	<100	20500
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	36400	<100	5270
Total Aliphatics >C12-C44	<100 µg/kg	TM173		64400	12100	71000	158000	<100	32800
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		5830 @	255 @	1360 @	<200 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		31300 @	1920 @	9100 @	<200 @	<40 @	52.2 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		2760	749	2380	1420	<100	455
Aromatics >EC16-EC21	<100 µg/kg	TM173		1120	149	1830	41800	<100	3350
Aromatics >EC21-EC35	<100 µg/kg	TM173		4900	907	10800	231000	<100	20100
Aromatics >EC35-EC44	<100 µg/kg	TM173		1020	<100	2770	94500	<100	5870
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	36500	<100	1440
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		9800	1810	17700	369000	<100	29800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		167000	19400	115000	527000	<100	62900

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE483	TPE484	TPE484	TPE484	TPE486	TPE486
			Depth (m)	3.50	0.50	1.50	2.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272773	10272782	10272790	10272795	10272799	10272803
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80 @	101 @	78 @	84 @	82 @	84 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	<176 @ #	<176 @ M	<176 @ M	<880 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ #	<20 @ M	<20 @ M	<100 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ #	<40 @ M	<40 @ M	<200 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ #	<8 @ M	<8 @ M	<40 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ #	<12 @ M	<12 @ M	<60 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ #	<24 @ M	<24 @ M	<120 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ #	<12 @ M	<12 @ M	<60 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		2480	1730	<100	1320	8760	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		19300	8720	<100	1420	52800	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		36200	37400	<100	<100	196000	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		6890	29500	<100	<100	69100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		64800	77400	<100	2750	327000	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1390	801	923	437	8510	768
Aromatics >EC16-EC21	<100 µg/kg	TM173		11800	5400	1370	1620	33300	1050
Aromatics >EC21-EC35	<100 µg/kg	TM173		65400	51900	4710	3350	254000	3910
Aromatics >EC35-EC44	<100 µg/kg	TM173		31600	64500	944	1600	112000	841
Aromatics >EC40-EC44	<100 µg/kg	TM173		12400	30000	<100	<100	41500	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		110000	123000	7950	7010	408000	6570
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		175000	200000	7950	9760	735000	6570

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE486	TPE486	TPE543	TPE543	TPE543	TPE543
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272632	10272641	10272628	10272688	10272744	10272777
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		89 @	96 @	79 @	81 @	109 @	80 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<880 @ M	<176 @ M	39000 @ M	<880 @ M	36600 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 @ M	<20 @ M	<20 @ M	<100 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<200 @ M	<40 @ M	<40 @ M	<200 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<40 @ M	<8 @ M	<8 @ M	<40 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<60 @ M	<12 @ M	<12 @ M	<60 @ M	847 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<120 @ M	<24 @ M	<24 @ M	<120 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<60 @ M	<12 @ M	<12 @ M	<60 @ M	544 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	544 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @	1390 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<200 @	<40 @	113 @	<200 @	58.4 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<200 @	<40 @	2660 @	<200 @	6140 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<200 @	<40 @	12100 @	<200 @	14600 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<200 @	<40 @	9600 @	<200 @	2800 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	29300	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	34900	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	95500	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	69200	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	229000	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<200 @	<40 @	<40 @	<200 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200 @	<40 @	<40 @	<200 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<200 @	<40 @	8070 @	<200 @	11100 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<200 @	<40 @	6400 @	<200 @	1870 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		881	1200	1520	942	<100	422
Aromatics >EC16-EC21	<100 µg/kg	TM173		1670	1940	15000	1470	<100	2490
Aromatics >EC21-EC35	<100 µg/kg	TM173		5850	6450	93100	4570	<100	8920
Aromatics >EC35-EC44	<100 µg/kg	TM173		1270	<100	103000	1000	<100	1870
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	46600	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		9660	9600	212000	7980	<100	13700
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		9710	9600	480000	8060	36600	13700

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE544	TPE544	TPE544	TPE544	TPE544	TPE545
			Depth (m)	0.50	1.50	2.50	3.50	4.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-49	141028-49	141028-49	141028-49	141028-49	141028-49
			Lab Sample No.(s)	10272671	10272675	10272679	10272692	10272696	10272645
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		84	93 @	100 @	78 @	77 @	110 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			15200 @ M	<880 @ M	344 @ M	642 @ M	10100 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			150 @ M	<100 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089			<40 @ M	<200 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089			<8 @ M	<40 @ M	<8 @ M	<8 @ M	9.68 @ M
Ethylbenzene	<3 µg/kg	TM089			<12 @ M	<60 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089			<24 @ M	<120 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089			<12 @ M	<60 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089			<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		129	155 @	<200 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		1150	2350 @	<200 @	78.2 @	109 @	149 @
Aliphatics >C8-C10	<10 µg/kg	TM089		8490	2510 @	<200 @	88.6 @	167 @	1670 @
Aliphatics >C10-C12	<10 µg/kg	TM089		20400	4990 @	<200 @	48.3 @	135 @	4270 @
Aliphatics >C12-C16	<100 µg/kg	TM173		323000	181000	197	880	<100	56700
Aliphatics >C16-C21	<100 µg/kg	TM173			181000	1060	527	<100	159000
Aliphatics >C21-C35	<100 µg/kg	TM173			68500	11900	<100	<100	1170000
Aliphatics >C35-C44	<100 µg/kg	TM173		8490	2410	823	<100	<100	890000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		424000	433000	14000	1410	<100	2280000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 @	<200 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		5770	1670 @	<200 @	58.7 @	128 @	1120 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		13600	3330 @	<200 @	<40 @	90.1 @	2840 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1940	34000	1620	1150	<100	2630
Aromatics >EC16-EC21	<100 µg/kg	TM173		7640	61500	3440	2220	<100	26600
Aromatics >EC21-EC35	<100 µg/kg	TM173		42500	53100	14400	7200	826	365000
Aromatics >EC35-EC44	<100 µg/kg	TM173		24100	10500	2480	<100	<100	522000
Aromatics >EC40-EC44	<100 µg/kg	TM173		10300	3750	<100	<100	<100	259000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		76200	159000	21900	10600	826	916000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		550000	607000	36000	12300	1470	3200000

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE545	TPE545	TPE545	TPE545		
			Depth (m)	1.50	2.50	3.50	4.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	22/10/2014	22/10/2014	22/10/2014	22/10/2014		
			Sample Time	.	.	.	.		
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014		
			SDG Ref	141028-49	141028-49	141028-49	141028-49		
			Lab Sample No.(s)	10272649	10272659	10272663	10272667		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		112 @	110 @	93 @	103 @		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		54800 @ M	<880 @ #	389 @ M	270 @ M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<100 @ #	<20 @ M	<20 @ M		
Benzene	<10 µg/kg	TM089		<40 @ M	<200 @ #	<40 @ M	<40 @ M		
Toluene	<2 µg/kg	TM089		<8 @ M	<40 @ #	<8 @ M	9.68 @ M		
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<60 @ #	<12 @ M	<12 @ M		
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<120 @ #	<24 @ M	<24 @ M		
o-Xylene	<3 µg/kg	TM089		<12 @ M	<60 @ #	<12 @ M	<12 @ M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24 @	<24 @	<24 @		
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<200 @	<40 @	<40 @		
Aliphatics >C6-C8	<10 µg/kg	TM089		541 @	<200 @	<40 @	<40 @		
Aliphatics >C8-C10	<10 µg/kg	TM089		11200 @	<200 @	93.6 @	59.3 @		
Aliphatics >C10-C12	<10 µg/kg	TM089		21400 @	<200 @	112 @	66.6 @		
Aliphatics >C12-C16	<100 µg/kg	TM173		49200	<100	<100	3100		
Aliphatics >C16-C21	<100 µg/kg	TM173		22300	<100	<100	4110		
Aliphatics >C21-C35	<100 µg/kg	TM173		77000	11900	2400	11500		
Aliphatics >C35-C44	<100 µg/kg	TM173		37100	2940	<100	7380		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		186000	14900	2400	26100		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<200 @	<40 @	<40 @		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<200 @	<40 @	<40 @		
Aromatics >EC8-EC10	<10 µg/kg	TM089		7460 @	<200 @	62.4 @	49.6 @		
Aromatics >EC10-EC12	<10 µg/kg	TM089		14200 @	<200 @	75.4 @	44.8 @		
Aromatics >EC12-EC16	<100 µg/kg	TM173		711	<100	<100	<100		
Aromatics >EC16-EC21	<100 µg/kg	TM173		5240	<100	<100	978		
Aromatics >EC21-EC35	<100 µg/kg	TM173		59100	9860	19900	11300		
Aromatics >EC35-EC44	<100 µg/kg	TM173		47300	11000	9840	12000		
Aromatics >EC40-EC44	<100 µg/kg	TM173		21200	4730	2630	5910		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		112000	20800	29700	24300		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		353000	35800	32500	50700		

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE481 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 14:46:50 141028-49 10272700 TM048	10/11/14	Kevin Hughes	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE482 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 14:44:29 141028-49 10272723 TM048	10/11/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE483 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 14:42:10 141028-49 10272754 TM048	10/11/14	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE484 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 20:21:30 141028-49 10272782 TM048	10/11/14	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE486 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 20:24:10 141028-49 10272799 TM048	10/11/14	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE543 0.50 SOLID 22/10/2014 00:00:00 31/10/2014 14:29:03 141028-49 10272628 TM048	10/11/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE544 0.50 SOLID 22/10/2014 00:00:00 06/11/2014 10:31:21 141028-49 10272671 TM048	11/11/14	Paul Poynton	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE545 0.50 SOLID 22/10/2014 00:00:00 30/10/2014 14:49:02 141028-49 10272645 TM048	11/11/14	Paul Poynton	Soil containing loose fibres and ACM debris	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE481 0.50 SOLID 22/10/2014 00:00:00 04/12/2014 10:20:11 141028-49 10272700 TM 304	None (#)	N/C	0.0014 (#)	<0.001 (#)	0.0014 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE483 0.50 SOLID 22/10/2014 00:00:00 04/12/2014 10:21:59 141028-49 10272754 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE484 0.50 SOLID 22/10/2014 00:00:00 04/12/2014 10:32:30 141028-49 10272782 TM 304	None (#)	N/C	0.0012 (#)	<0.001 (#)	0.0012 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE486 0.50 SOLID 22/10/2014 00:00:00 04/12/2014 10:36:21 141028-49 10272799 TM 304	None (#)	N/C	0.0010 (#)	<0.001 (#)	0.0011 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE544 0.50 SOLID 22/10/2014 00:00:00 17/11/2014 14:05:04 141028-49 10272671 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE545 0.50 SOLID 22/10/2014 00:00:00 04/12/2014 10:17:45 141028-49 10272645 TM 304	None (#)	N/C	0.0045 (#)	<0.001 (#)	0.0046 (#)

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Test Completion Dates

Lab Sample No(s)	10272700	10272706	10272715	10272719	10272723	10272727	10272731	10272740	10272750	10272754
Customer Sample Ref.	TPE481	TPE481	TPE481	TPE481	TPE482	TPE482	TPE482	TPE482	TPE482	TPE483
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	0.50	1.00	2.00	3.00	4.00	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Nov-2014				11-Nov-2014					11-Nov-2014
Asbestos Quantification - Full	11-Dec-2014									11-Dec-2014
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	14-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	12-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	12-Nov-2014	13-Nov-2014	11-Nov-2014	11-Nov-2014	11-Nov-2014	13-Nov-2014
Metals in solid samples by OES	10-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	05-Nov-2014	07-Nov-2014	07-Nov-2014	10-Nov-2014
PAH by GCMS	06-Nov-2014	11-Nov-2014	10-Nov-2014	07-Nov-2014	06-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	10-Nov-2014	11-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	31-Oct-2014
Total Organic Carbon	06-Nov-2014				06-Nov-2014					11-Nov-2014
TPH CWG GC (S)	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	14-Nov-2014	13-Nov-2014

Lab Sample No(s)	10272758	10272769	10272773	10272782	10272790	10272795	10272632	10272641	10272799	10272803
Customer Sample Ref.	TPE483	TPE483	TPE483	TPE484	TPE484	TPE484	TPE486	TPE486	TPE486	TPE486
AGS Ref.										
Depth	1.50	2.50	3.50	0.50	1.50	2.50	2.50	3.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				11-Nov-2014					11-Nov-2014	
Asbestos Quantification - Full				11-Dec-2014					11-Dec-2014	
EPH CWG (Aliphatic) GC (S)	14-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	14-Nov-2014	14-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	13-Nov-2014	11-Nov-2014	10-Nov-2014	11-Nov-2014	12-Nov-2014	10-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	10-Nov-2014
Metals in solid samples by OES	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014
PAH by GCMS	10-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	10-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	05-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
TPH CWG GC (S)	14-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	14-Nov-2014	14-Nov-2014	13-Nov-2014	12-Nov-2014

Lab Sample No(s)	10272628	10272688	10272744	10272777	10272671	10272675	10272679	10272692	10272696	10272645
Customer Sample Ref.	TPE543	TPE543	TPE543	TPE543	TPE544	TPE544	TPE544	TPE544	TPE544	TPE545
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	4.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Nov-2014				11-Nov-2014					11-Nov-2014
Asbestos Quantification - Full					12-Dec-2014					11-Dec-2014
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	13-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	11-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	10-Nov-2014	11-Nov-2014
Metals in solid samples by OES	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	06-Nov-2014	07-Nov-2014	10-Nov-2014
PAH by GCMS	11-Nov-2014	13-Nov-2014	10-Nov-2014	08-Nov-2014	09-Nov-2014	10-Nov-2014	12-Nov-2014	08-Nov-2014	10-Nov-2014	11-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	05-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Sample description	31-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	28-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	31-Oct-2014
Total Organic Carbon	06-Nov-2014				06-Nov-2014					06-Nov-2014
TPH CWG GC (S)	13-Nov-2014	12-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	14-Nov-2014	12-Nov-2014	12-Nov-2014

Lab Sample No(s)	10272649	10272659	10272663	10272667
Customer Sample Ref.	TPE545	TPE545	TPE545	TPE545
AGS Ref.				
Depth	1.50	2.50	3.50	4.50
Type	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	10-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014
Metals in solid samples by OES	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014
PAH by GCMS	04-Nov-2014	12-Nov-2014	10-Nov-2014	10-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
TPH CWG GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014

SDG:	141028-49	**Location:**	Coed Darcy	**Order Number:**	CD0914
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295450
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	291909

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
5	**Samples exceeded holding time before presevation was performed**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

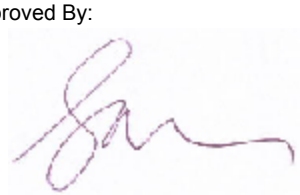
Date:	15 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141028-25
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	295676

We received 17 samples on Tuesday October 28, 2014 and 17 of these samples were scheduled for analysis which was completed on Monday December 15, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10270018	TPE491		0.50	23/10/2014
10270005	TPE492		0.50	23/10/2014
10270012	TPE492		1.50	23/10/2014
10269980	TPE550		0.50	23/10/2014
10269985	TPE550		1.50	23/10/2014
10269991	TPE550		2.50	23/10/2014
10269996	TPE550		3.00	23/10/2014
10270001	TPE550		4.00	23/10/2014
10270039	TPE551		0.50	23/10/2014
10270045	TPE551		1.50	23/10/2014
10270051	TPE551		2.50	23/10/2014
10270058	TPE551		3.50	23/10/2014
10270064	TPE551		4.50	23/10/2014
10269971	TPE553		0.50	23/10/2014
10270024	TPE553		1.50	23/10/2014
10270029	TPE553		2.50	23/10/2014
10270034	TPE553		3.50	23/10/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG: 141028-25
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting
Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie
Order Number: CD0920
Report Number: 295676
Superseded Report:

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			10270018			10270005			10270012			10269980			10269985			10269991			10269996			10270001			10270039			10270045			10270051			10270058			10270064			10269971
Customer Sample Reference			TPE491			TPE492			TPE492			TPE550			TPE550			TPE550			TPE550			TPE550			TPE551			TPE551			TPE551			TPE551			TPE551			TPE553
AGS Reference																																											
Depth (m)			0.50			0.50			1.50			0.50			1.50			2.50			3.00			4.00			0.50			1.50			2.50			3.50			4.50			0.50
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 5		X			X						X																X														
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1					X																																				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 17	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 17	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 17			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 17	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 17	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 17		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X						X
Total Organic Carbon	All	NDPs: 0 Tests: 5	X									X									X						X															X
TPH CWG GC (S)	All	NDPs: 0 Tests: 17	X			X			X			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10269971	TPE553		0.50	400g Tub (ALE214)
							60g VOC (ALE215)
			10270024	TPE553		1.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10270029	TPE553		2.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			10270034	TPE553		3.50	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 5	X				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 17		X		X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 17		X		X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 17	X		X		X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 17		X		X	X
PAH by GCMS	All	NDPs: 0 Tests: 17		X		X	X
pH	All	NDPs: 0 Tests: 17	X		X		X		X
Sample description	All	NDPs: 0 Tests: 16		X		X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 17		X		X	X

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10270018	TPE491	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
10270005	TPE492	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10270012	TPE492	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
10269980	TPE550	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
10269985	TPE550	1.50	Black	Sand	0.1 - 2 mm	Fibres	Stones
10269991	TPE550	2.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10269996	TPE550	3.00	Black	Sand	0.1 - 2 mm	Stones	None
10270001	TPE550	4.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
10270039	TPE551	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
10270045	TPE551	1.50	Black	Sand	0.1 - 2 mm	Stones	None
10270051	TPE551	2.50	Black	Shale	0.1 - 2 mm	Concrete/Aggregate	Crushed Brick
10270058	TPE551	3.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	None
10270064	TPE551	4.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Oil/Petroleum
10269971	TPE553	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10270024	TPE553	1.50	Black	Sandy Loam	0.1 - 2 mm	Fibres	Stones
10270029	TPE553	2.50	Light Brown	Silty Clay	0.063 - 0.1 mm	Oil/Petroleum	Stones
10270034	TPE553	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE491	TPE492	TPE492	TPE550	TPE550	TPE550
			Depth (m)	0.50	0.50	1.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270018	10270005	10270012	10269980	10269985	10269991
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	31	12	12	15	31
Soil Organic Matter (SOM)	<0.35 %	TM132		5.88 #			4.1 #		
pH	1 pH Units	TM133		6.22 M	6.28 M	6.68 M	7.45 M	7.77 M	7.25 M
Arsenic	<0.6 mg/kg	TM181		14.1 M	50.8 M	10.2 M	58.5 M	25.8 M	2.24 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.916 M	<0.02 M	0.558 M	<0.02 M	0.0277 M
Chromium	<0.9 mg/kg	TM181		18.1 M	31.8 M	15 M	23.5 M	18.3 M	2.96 M
Copper	<1.4 mg/kg	TM181		36.1 M	107 M	21.8 M	170 M	76.7 M	9.81 M
Lead	<0.7 mg/kg	TM181		90.5 M	292 M	17.4 M	425 M	60.3 M	19.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.98 M	0.241 M
Nickel	<0.2 mg/kg	TM181		32 M	44.9 M	38.7 M	31.2 M	51.8 M	8.66 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.13 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.5 #	26.1 #	15.9 #	18.8 #	65.6 #	6.39 #
Zinc	<1.9 mg/kg	TM181		463 M	506 M	76 M	966 M	150 M	8.03 M

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE550	TPE550	TPE551	TPE551	TPE551	TPE551
			Depth (m)	3.00	4.00	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10269996	10270001	10270039	10270045	10270051	10270058
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		25	23	15	24	21	24
Soil Organic Matter (SOM)	<0.35 %	TM132		47.8 #		4.07 #			
pH	1 pH Units	TM133		7.35 M	7.12 M	7.89 M	7.71 M	7.59 M	7.38 M
Arsenic	<0.6 mg/kg	TM181		13.5 M	13.4 M	24.6 M	12.7 M	31 M	59 M
Cadmium	<0.02 mg/kg	TM181		0.0841 M	<0.02 M	0.415 M	<0.02 M	0.129 M	0.142 M
Chromium	<0.9 mg/kg	TM181		19.8 M	21.7 M	11.7 M	11.7 M	13.4 M	21.8 M
Copper	<1.4 mg/kg	TM181		51.1 M	21.3 M	73.1 M	51.2 M	73.5 M	18.2 M
Lead	<0.7 mg/kg	TM181		43.3 M	22.5 M	141 M	24.5 M	41.1 M	23.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.264 M	<0.14 M	0.576 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		34.9 M	17.3 M	19.4 M	35.7 M	48.9 M	17.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.16 #	<1 #
Vanadium	<0.2 mg/kg	TM181		55 #	30.5 #	16.8 #	43.2 #	46.1 #	35 #
Zinc	<1.9 mg/kg	TM181		90.6 M	73 M	363 M	40.3 M	81.7 M	79.2 M

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE551	TPE553	TPE553	TPE553	TPE553
			Depth (m)	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270064	10269971	10270024	10270029	10270034
			AGS Reference					
Moisture Content Ratio (% of as received sample)	%	PM024		20	12	23	44	20
Soil Organic Matter (SOM)	<0.35 %	TM132			2.6 #			
pH	1 pH Units	TM133		5.74 M	7.7 M	8.18 M	8.37 M	11.7 M
Arsenic	<0.6 mg/kg	TM181		19.2 M	14 M	34.8 M	2.95 M	20.1 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.0534 M	2.57 M	0.0951 M	0.0883 M
Chromium	<0.9 mg/kg	TM181		18 M	13.4 M	33.6 M	7.27 M	19.7 M
Copper	<1.4 mg/kg	TM181		298 M	40.2 M	669 M	17.1 M	98.7 M
Lead	<0.7 mg/kg	TM181		18.9 M	53.9 M	602 M	15.7 M	204 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	10.7 M	0.233 M	0.587 M
Nickel	<0.2 mg/kg	TM181		18.8 M	21.8 M	135 M	8.68 M	62.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		22.5 #	16.5 #	77.2 #	14.4 #	103 #
Zinc	<1.9 mg/kg	TM181		136 M	135 M	1280 M	25.2 M	154 M

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE491	TPE492	TPE492	TPE550	TPE550	TPE550
			Depth (m)	0.50	0.50	1.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270018	10270005	10270012	10269980	10269985	10269991
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.9	101	95.7	97.5	123	96.5
Acenaphthene-d10 % recovery**	%	TM218		97.6	101	95.7	97.7	125	92.2
Phenanthrene-d10 % recovery**	%	TM218		94	91.8	93.3	92.9	106	83.5
Chrysene-d12 % recovery**	%	TM218		97	94.2	90.5	96.3	70.6	87.8
Perylene-d12 % recovery**	%	TM218		106	98.4	91.9	105	53	94.3
Naphthalene	<9 µg/kg	TM218		2300 @ M	561 @ M	81.4 @ M	77.8 @ M	883 @ M	113 @ M
Acenaphthylene	<12 µg/kg	TM218		33.3 @ M	115 @ M	<12 @ M	20.8 @ M	154 @ M	19 @ M
Acenaphthene	<8 µg/kg	TM218		503 @ M	89.7 @ M	11.7 @ M	9.45 @ M	70.3 @ M	642 @ M
Fluorene	<10 µg/kg	TM218		490 @ M	179 @ M	20 @ M	19.7 @ M	90.5 @ M	22.1 @ M
Phenanthrene	<15 µg/kg	TM218		444 @ M	718 @ M	199 @ M	114 @ M	526 @ M	69.9 @ M
Anthracene	<16 µg/kg	TM218		100 @ M	528 @ M	<16 @ M	39.7 @ M	65.1 @ M	70.2 @ M
Fluoranthene	<17 µg/kg	TM218		213 @ M	1290 @ M	36.7 @ M	187 @ M	194 @ M	33 @ M
Pyrene	<15 µg/kg	TM218		140 @ M	1400 @ M	34.7 @ M	185 @ M	588 @ M	202 @ M
Benz(a)anthracene	<14 µg/kg	TM218		80.5 @ M	660 @ M	24.5 @ M	164 @ M	118 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		62.8 @ M	604 @ M	126 @ M	156 @ M	172 @ M	28 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		88.4 @ M	699 @ M	57.2 @ M	264 @ M	99.4 @ M	96.4 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		35.8 @ M	338 @ M	<14 @ M	105 @ M	45.4 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		64.1 @ M	666 @ M	<15 @ M	257 @ M	102 @ M	83 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		46.9 @ M	392 @ M	<18 @ M	244 @ M	31.3 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	130 @ M	<23 @ M	61 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		55.5 @ M	479 @ M	<24 @ M	384 @ M	56.2 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		4660	8850	592	2290	3190	1380

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE550	TPE550	TPE551	TPE551	TPE551	TPE551
			Depth (m)	3.00	4.00	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10269996	10270001	10270039	10270045	10270051	10270058
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		96.1	100	94.4	114	94.7	103
Acenaphthene-d10 % recovery**	%	TM218		96.4	101	94.4	114	95.9	102
Phenanthrene-d10 % recovery**	%	TM218		85.5	98.2	91.2	98.6	84.7	96.7
Chrysene-d12 % recovery**	%	TM218		71.7	97.1	96.6	97.9	81.6	103
Perylene-d12 % recovery**	%	TM218		65.9	104	105	111	77.8	114
Naphthalene	<9 µg/kg	TM218		668 @ M	77.5 @ M	84.5 @ M	1320 @ M	401 @ M	148 @ M
Acenaphthylene	<12 µg/kg	TM218		36.6 @ M	<12 @ M	46.1 @ M	147 @ M	259 @ M	44.6 @ M
Acenaphthene	<8 µg/kg	TM218		50.1 @ M	22.6 @ M	23 @ M	721 @ M	15.6 @ M	132 @ M
Fluorene	<10 µg/kg	TM218		30.2 @ M	25 @ M	64.1 @ M	629 @ M	205 @ M	124 @ M
Phenanthrene	<15 µg/kg	TM218		384 @ M	62.1 @ M	327 @ M	1930 @ M	1520 @ M	360 @ M
Anthracene	<16 µg/kg	TM218		49.4 @ M	<16 @ M	112 @ M	524 @ M	446 @ M	153 @ M
Fluoranthene	<17 µg/kg	TM218		86.2 @ M	<17 @ M	680 @ M	330 @ M	1720 @ M	391 @ M
Pyrene	<15 µg/kg	TM218		266 @ M	61.1 @ M	671 @ M	1090 @ M	1680 @ M	582 @ M
Benz(a)anthracene	<14 µg/kg	TM218		50.2 @ M	<14 @ M	397 @ M	355 @ M	935 @ M	528 @ M
Chrysene	<10 µg/kg	TM218		45.1 @ M	<10 @ M	287 @ M	770 @ M	831 @ M	604 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		95.9 @ M	31.9 @ M	471 @ M	356 @ M	606 @ M	894 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		31.3 @ M	<14 @ M	211 @ M	<14 @ M	268 @ M	221 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		60.1 @ M	<15 @ M	494 @ M	326 @ M	692 @ M	609 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	343 @ M	62.8 @ M	244 @ M	259 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	87.6 @ M	<23 @ M	112 @ M	163 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		52.7 @ M	<24 @ M	443 @ M	<24 @ M	348 @ M	432 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1910	280	4740	8560	10300	5640

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE551	TPE553	TPE553	TPE553	TPE553
			Depth (m)	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270064	10269971	10270024	10270029	10270034
			AGS Reference					
Naphthalene-d8 % recovery**	%	TM218		95.6	106	86.9	95.7	99.4
Acenaphthene-d10 % recovery**	%	TM218		93.6	105	87	111	99.9
Phenanthrene-d10 % recovery**	%	TM218		89.9	104	81.2	93.7	96.4
Chrysene-d12 % recovery**	%	TM218		87.2	102	86.9	103	107
Perylene-d12 % recovery**	%	TM218		88.7	116	93.5	107	113
Naphthalene	<9 µg/kg	TM218		23.8 @ M	82.9 @ M	1580 @ M	15400 @ M	207 @ M
Acenaphthylene	<12 µg/kg	TM218		17.6 @ M	22.8 @ M	546 @ M	<12 @ M	234 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	33.1 @ M	380 @ M	631 @ M	45.5 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	113 @ M	463 @ M	1430 @ M	175 @ M
Phenanthrene	<15 µg/kg	TM218		77.8 @ M	361 @ M	3330 @ M	7180 @ M	2170 @ M
Anthracene	<16 µg/kg	TM218		36.3 @ M	186 @ M	1110 @ M	534 @ M	719 @ M
Fluoranthene	<17 µg/kg	TM218		129 @ M	503 @ M	6890 @ M	576 @ M	5960 @ M
Pyrene	<15 µg/kg	TM218		191 @ M	744 @ M	7590 @ M	610 @ M	5990 @ M
Benz(a)anthracene	<14 µg/kg	TM218		58.3 @ M	349 @ M	6560 @ M	391 @ M	7080 @ M
Chrysene	<10 µg/kg	TM218		128 @ M	247 @ M	6010 @ M	320 @ M	9600 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		123 @ M	498 @ M	7910 @ M	460 @ M	8510 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		28.5 @ M	196 @ M	2750 @ M	100 @ M	2730 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		74.8 @ M	411 @ M	5310 @ M	301 @ M	5400 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		31 @ M	213 @ M	3170 @ M	165 @ M	3040 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	71.4 @ M	1510 @ M	137 @ M	1960 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		52.7 @ M	288 @ M	3340 @ M	222 @ M	3470 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		971	4320	58400	28400	57300

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE491	TPE492	TPE492	TPE550	TPE550	TPE550
			Depth (m)	0.50	0.50	1.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270018	10270005	10270012	10269980	10269985	10269991
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		94 @	124 @	71 @	76 @	81 @	83 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	1290000 @ M	31400 @ M	909 @ M	3030 @ M	143000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<100 @ M	<20 @ M	<20 @ M	<100 @ M	<100 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	508 @ M	<40 @ M	<40 @ M	<200 @ M	<200 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<40 @ M	<8 @ M	<8 @ M	<40 @ M	<40 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<60 @ M	<12 @ M	<12 @ M	<60 @ M	<60 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<120 @ M	<24 @ M	<24 @ M	<120 @ M	<120 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<60 @ M	<12 @ M	<12 @ M	<60 @ M	<60 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	508 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	10700 @	<40 @	<40 @	<200 @	<200 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	312000 @	1250 @	<40 @	267 @	699 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	375000 @	11000 @	108 @	358 @	3080 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	204000 @	7070 @	400 @	1230 @	82000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		727	702000	<100	35100	208000	3040000
Aliphatics >C16-C21	<100 µg/kg	TM173		2830	2130000	<100	60500	258000	1490000
Aliphatics >C21-C35	<100 µg/kg	TM173		18200	1380000	<100	131000	668000	1330000
Aliphatics >C35-C44	<100 µg/kg	TM173		23700	255000	<100	39200	518000	277000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		45500	4460000	<100	266000	1650000	6140000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	508 @	<40 @	<40 @	<200 @	<200 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<200 @	<40 @	<40 @	<200 @	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	250000 @	7320 @	80.2 @	268 @	2110 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	136000 @	4710 @	267 @	818 @	54600 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		2260	125000	<100	4580	87000	4190000
Aromatics >EC16-EC21	<100 µg/kg	TM173		4930	651000	<100	26800	142000	2360000
Aromatics >EC21-EC35	<100 µg/kg	TM173		21000	645000	1410	140000	337000	2020000
Aromatics >EC35-EC44	<100 µg/kg	TM173		16600	160000	<100	66000	117000	168000
Aromatics >EC40-EC44	<100 µg/kg	TM173		7670	64100	<100	26600	46500	30900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		44700	1580000	1410	237000	683000	8740000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		90200	7330000	32800	504000	2340000	15000000

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE550	TPE550	TPE551	TPE551	TPE551	TPE551
			Depth (m)	3.00	4.00	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10269996	10270001	10270039	10270045	10270051	10270058
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		102 @	92	88 @	82 @	82 @	122
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		34300 @ M	24400 M	43800 @ M	130000 @ M	258000 @ #	54900 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 @ M	<20 M	<20 @ M	<100 @ M	<100 @ #	47.5 M
Benzene	<10 µg/kg	TM089		<200 @ M	<40 M	<40 @ M	<200 @ M	<200 @ #	<40 M
Toluene	<2 µg/kg	TM089		<40 @ M	<8 M	<8 @ M	<40 @ M	<40 @ #	<8 M
Ethylbenzene	<3 µg/kg	TM089		<60 @ M	<12 M	<12 @ M	<60 @ M	<60 @ #	<12 M
m,p-Xylene	<6 µg/kg	TM089		<120 @ M	<24 M	<24 @ M	<120 @ M	<120 @ #	<24 M
o-Xylene	<3 µg/kg	TM089		<60 @ M	<12 M	<12 @ M	<60 @ M	<60 @ #	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9	<9 @	<9 @	<9 @	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<24	<24 @	<24 @	<24 @	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<200 @	239	<40 @	<200 @	<200 @	48.8
Aliphatics >C6-C8	<10 µg/kg	TM089		450 @	2740	1940 @	618 @	1320 @	2610
Aliphatics >C8-C10	<10 µg/kg	TM089		4100 @	5050	10400 @	23100 @	50400 @	11400
Aliphatics >C10-C12	<10 µg/kg	TM089		16100 @	7800	14700 @	54500 @	104000 @	19900
Aliphatics >C12-C16	<100 µg/kg	TM173		298000	58100	218000	228000	170000	83800
Aliphatics >C16-C21	<100 µg/kg	TM173		390000	52100	195000	293000	240000	138000
Aliphatics >C21-C35	<100 µg/kg	TM173		1090000	113000	351000	930000	585000	265000
Aliphatics >C35-C44	<100 µg/kg	TM173		827000	128000	92800	597000	294000	72200
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2610000	351000	857000	2050000	1290000	559000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<200 @	<40	<40 @	<200 @	<200 @	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200 @	<40	<40 @	<200 @	<200 @	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		2740 @	3370	6930 @	15400 @	33600 @	7600
Aromatics >EC10-EC12	<10 µg/kg	TM089		10800 @	5200	9820 @	36400 @	69100 @	13300
Aromatics >EC12-EC16	<100 µg/kg	TM173		174000	50600	45500	49800	66700	82700
Aromatics >EC16-EC21	<100 µg/kg	TM173		241000	48400	100000	120000	164000	156000
Aromatics >EC21-EC35	<100 µg/kg	TM173		603000	82000	377000	460000	625000	434000
Aromatics >EC35-EC44	<100 µg/kg	TM173		205000	24900	175000	177000	177000	136000
Aromatics >EC40-EC44	<100 µg/kg	TM173		79700	9890	69800	69100	63200	51200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1220000	206000	697000	808000	1030000	808000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		3860000	582000	1600000	2990000	2580000	1420000

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TPE551	TPE553	TPE553	TPE553	TPE553
			Depth (m)	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.
			Date Received	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			SDG Ref	141028-25	141028-25	141028-25	141028-25	141028-25
			Lab Sample No.(s)	10270064	10269971	10270024	10270029	10270034
			AGS Reference					
GRO Surrogate % recovery**	%	TM089		95	77 @	71 @	90 @	100 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		4500 M	33900 @ M	<880 @ M	<880 @ M	1790000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 @ M	<100 @ M	<100 @ M	<100 @ M
Benzene	<10 µg/kg	TM089		<40 M	<40 @ M	<200 @ M	<200 @ M	285 @ M
Toluene	<2 µg/kg	TM089		<8 M	<8 @ M	<40 @ M	<40 @ M	<40 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 @ M	<60 @ M	<60 @ M	<60 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 @ M	<120 @ M	<120 @ M	<120 @ M
o-Xylene	<3 µg/kg	TM089		71.3 M	<12 @ M	<60 @ M	<60 @ M	<60 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		71.3	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		71.3	<24 @	<24 @	<24 @	285 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	101 @	<200 @	<200 @	17900 @
Aliphatics >C6-C8	<10 µg/kg	TM089		270	4590 @	<200 @	326 @	230000 @
Aliphatics >C8-C10	<10 µg/kg	TM089		961	8120 @	<200 @	294 @	349000 @
Aliphatics >C10-C12	<10 µg/kg	TM089		1490	9410 @	<200 @	333 @	578000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		5460	304000	72400	751000	14300
Aliphatics >C16-C21	<100 µg/kg	TM173		26100	500000	342000	309000	67900
Aliphatics >C21-C35	<100 µg/kg	TM173		71600	477000	707000	236000	317000
Aliphatics >C35-C44	<100 µg/kg	TM173		26500	107000	450000	29600	122000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		130000	1390000	1570000	1330000	522000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 @	<200 @	<200 @	285 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 @	<200 @	<200 @	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		744	5410 @	<200 @	247 @	233000 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		993	6270 @	<200 @	222 @	385000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		2860	11000	46000	4670000	11300
Aromatics >EC16-EC21	<100 µg/kg	TM173		6960	82700	127000	2800000	41400
Aromatics >EC21-EC35	<100 µg/kg	TM173		63300	283000	802000	3610000	497000
Aromatics >EC35-EC44	<100 µg/kg	TM173		26000	123000	623000	648000	333000
Aromatics >EC40-EC44	<100 µg/kg	TM173		9880	47700	237000	197000	130000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		99100	500000	1600000	11700000	883000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		233000	1920000	3170000	13100000	3200000

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE491 0.50 SOLID 23/10/2014 00:00:00 29/10/2014 10:20:55 141028-25 10270018 TM048	10/11/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE492 0.50 SOLID 23/10/2014 00:00:00 30/10/2014 17:36:06 141028-25 10270005 TM048	10/11/14	Paul Fenney	Soil containing loose fibres and debris typical of AIB	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE550 0.50 SOLID 23/10/2014 00:00:00 29/10/2014 10:18:10 141028-25 10269980 TM048	10/12/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE551 0.50 SOLID 23/10/2014 00:00:00 30/10/2014 17:42:14 141028-25 10270039 TM048	11/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE553 0.50 SOLID 23/10/2014 00:00:00 30/10/2014 17:01:25 141028-25 10269971 TM048	11/11/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPE492 0.50 SOLID 23/10/2014 00:00:00 04/12/2014 10:51:01 141028-25 10270005 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10270018	10270005	10270012	10269980	10269985	10269991	10269996	10270001	10270039	10270045
Customer Sample Ref.	TPE491	TPE492	TPE492	TPE550	TPE550	TPE550	TPE550	TPE550	TPE551	TPE551
AGS Ref.										
Depth	0.50	0.50	1.50	0.50	1.50	2.50	3.00	4.00	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Nov-2014	11-Nov-2014		15-Dec-2014					11-Nov-2014	
Asbestos Quantification - Full		11-Dec-2014								
EPH CWG (Aliphatic) GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	12-Nov-2014	13-Nov-2014	11-Nov-2014	12-Nov-2014	13-Nov-2014	11-Nov-2014	11-Nov-2014	10-Nov-2014	12-Nov-2014	11-Nov-2014
Metals in solid samples by OES	10-Nov-2014	10-Nov-2014	07-Nov-2014	10-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	10-Nov-2014	07-Nov-2014
PAH by GCMS	09-Nov-2014	09-Nov-2014	10-Nov-2014	09-Nov-2014	12-Nov-2014	09-Nov-2014	08-Nov-2014	08-Nov-2014	09-Nov-2014	11-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	30-Oct-2014	30-Oct-2014	10-Nov-2014	10-Nov-2014
Sample description	29-Oct-2014	30-Oct-2014	30-Oct-2014	29-Oct-2014	28-Oct-2014	30-Oct-2014	28-Oct-2014	28-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon	11-Nov-2014			06-Nov-2014			03-Nov-2014		11-Nov-2014	
TPH CWG GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	12-Nov-2014

Lab Sample No(s)	10270051	10270058	10270064	10269971	10270024	10270029	10270034
Customer Sample Ref.	TPE551	TPE551	TPE551	TPE553	TPE553	TPE553	TPE553
AGS Ref.							
Depth	2.50	3.50	4.50	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				11-Nov-2014			
EPH CWG (Aliphatic) GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014
EPH CWG (Aromatic) GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014
GRO by GC-FID (S)	13-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	13-Nov-2014	11-Nov-2014	12-Nov-2014
Metals in solid samples by OES	10-Nov-2014	07-Nov-2014	07-Nov-2014	10-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014
PAH by GCMS	09-Nov-2014	08-Nov-2014	10-Nov-2014	09-Nov-2014	09-Nov-2014	08-Nov-2014	09-Nov-2014
pH	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon				11-Nov-2014			
TPH CWG GC (S)	13-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014

SDG:	141028-25	**Location:**	Coed Darcy	**Order Number:**	CD0920
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295676
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Holding time exceeded before sample received**
5	**Samples exceeded holding time before presevation was performed**
§	**Sampled on date not provided**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to sampled on date**
&	**Sample Holding Time exceeded - Late arrival of instructions.**

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date:	12 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	140818-45
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	295498

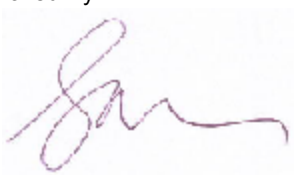
This report has been revised and directly supersedes 282899 in its entirety.

We received 142 samples on Monday August 18, 2014 and 142 of these samples were scheduled for analysis which was completed on Thursday September 04, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan
Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9838237	IP 508		0.50	
9838243	IP 508		0.80	
9838223	IP 508		1.50	
9826397	IP 509		0.50	13/08/2014
9826112	IP 511		0.10	13/08/2014
9826342	IP 511		0.40	13/08/2014
9826463	IP 512		0.20	13/08/2014
9838225	IP 513		0.50	
9838227	IP 513		0.80	
9826304	IP 514		0.20	13/08/2014
9826325	IP 514		0.50	13/08/2014
9826331	IP 514		1.00	13/08/2014
9826336	IP 514		1.50	13/08/2014
9838231	IP 538		0.20	
9838233	IP 538		0.50	
9838236	IP 538		1.50	
9838230	IP 544		0.20	
9838226	IP 544		1.60	
9826204	IP 546		0.20	13/08/2014
9826252	IP 546		2.00	13/08/2014
9826346	IP 571		0.50	13/08/2014
9826352	IP 571		1.50	13/08/2014
9826357	IP 571		2.50	13/08/2014
9826362	IP 584		0.50	13/08/2014
9826368	IP 585		1.00	13/08/2014
9826373	IP 585		2.00	13/08/2014
9826379	IP 615		0.50	13/08/2014
9826385	IP 615		1.50	13/08/2014
9826392	IP 615		2.50	13/08/2014
9826402	IP 633		0.50	13/08/2014
9826408	IP 633		1.50	13/08/2014
9826413	IP 633		2.50	13/08/2014
9826418	IP 634		0.50	13/08/2014
9826425	IP 634		1.50	13/08/2014
9826430	IP 634		2.50	13/08/2014
9826435	IP 661		0.50	13/08/2014
9826441	IP 661		2.00	13/08/2014
9826449	IP 690		0.50	13/08/2014
9826454	IP 690		1.30	13/08/2014
9826469	IP 690		1.50	13/08/2014
9826473	IP 690		2.50	13/08/2014
9826478	IP 713		0.50	13/08/2014
9826482	IP 713		0.70	13/08/2014
9826486	IP 713		1.50	13/08/2014
9826208	IP 719		0.50	13/08/2014
9826212	IP 719		1.50	13/08/2014
9826216	IP 719		2.50	13/08/2014
9826318	IP 726		0.50	13/08/2014
9826221	IP 729		0.50	13/08/2014
9826225	IP 729		1.00	13/08/2014
9826230	IP 729		1.50	13/08/2014
9826236	IP 729		2.00	13/08/2014
9826240	IP 729		3.00	13/08/2014
9826244	IP 729		4.00	13/08/2014
9826195	IP 730		0.50	13/08/2014
9826200	IP 730		1.50	13/08/2014

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

9826248	IP 731	0.50	13/08/2014
9826257	IP 731	1.50	13/08/2014
9826261	IP 731	2.50	13/08/2014
9826266	IP 731	3.50	13/08/2014
9826179	IP 732	0.50	13/08/2014
9826183	IP 732	1.50	13/08/2014
9826187	IP 732	2.50	13/08/2014
9826191	IP 732	3.50	13/08/2014
9826300	IP 733	0.50	13/08/2014
9826308	IP 733	1.50	13/08/2014
9826312	IP 733	2.50	13/08/2014
9826149	IP 742	0.50	13/08/2014
9826153	IP 742	1.50	13/08/2014
9826157	IP 742	2.50	13/08/2014
9826163	IP 742	3.50	13/08/2014
9826271	IP 747	0.50	13/08/2014
9826275	IP 747	1.50	13/08/2014
9826280	IP 747	2.50	13/08/2014
9826132	IP 781	0.50	13/08/2014
9826136	IP 781	1.50	13/08/2014
9826141	IP 781	2.50	13/08/2014
9826145	IP 781	3.50	13/08/2014
9826760	IP 782	0.50	13/08/2014
9826117	IP 782	1.50	13/08/2014
9826121	IP 782	2.50	13/08/2014
9826127	IP 782	3.70	13/08/2014
9826738	IP 783	0.40	13/08/2014
9826743	IP 783	1.50	13/08/2014
9826748	IP 783	2.50	13/08/2014
9826752	IP 783	3.50	13/08/2014
9826756	IP 783	4.50	13/08/2014
9826717	IP 784	0.50	13/08/2014
9826721	IP 784	1.50	13/08/2014
9826726	IP 784	2.50	13/08/2014
9826730	IP 784	3.50	13/08/2014
9826734	IP 784	4.50	13/08/2014
9826691	IP 785	0.50	13/08/2014
9826696	IP 785	1.50	13/08/2014
9826701	IP 785	2.50	13/08/2014
9826708	IP 785	3.50	13/08/2014
9826713	IP 785	4.50	13/08/2014
9826671	IP 786	0.50	13/08/2014
9826676	IP 786	1.50	13/08/2014
9826682	IP 786	2.50	13/08/2014
9826686	IP 786	3.50	13/08/2014
9826167	IP 788	0.50	13/08/2014
9826171	IP 788	1.50	13/08/2014
9826175	IP 788	2.50	13/08/2014
9826285	IP 790	0.20	13/08/2014
9826291	IP 790	0.80	13/08/2014
9826296	IP 790	1.80	13/08/2014
9826558	IP 1306	0.20	13/08/2014
9826563	IP 1306	0.50	13/08/2014
9826572	IP 1306	2.50	13/08/2014
9826605	IP 1354	0.50	13/08/2014
9826610	IP 1354	1.30	13/08/2014
9826523	IP 1760	0.20	13/08/2014
9826527	IP 1760	1.00	13/08/2014
9826531	IP 1938	0.30	13/08/2014

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

9826535	IP 1938	1.00	13/08/2014
9826542	IP 1938	1.60	13/08/2014
9826494	IP 2501	0.20	13/08/2014
9826498	IP 2501	0.40	13/08/2014
9826502	IP 2501	1.50	13/08/2014
9826548	IP 3039	0.50	13/08/2014
9826553	IP 3039	1.40	13/08/2014
9826576	IP 3095	0.50	13/08/2014
9826580	IP 3095	1.50	13/08/2014
9826584	IP 3095	2.50	13/08/2014
9826589	IP 3105	0.30	13/08/2014
9826597	IP 3105	1.50	13/08/2014
9826601	IP 3105	2.70	13/08/2014
9826614	IP 3163	0.50	13/08/2014
9826618	IP 3163	1.50	13/08/2014
9826627	IP 3163	2.50	13/08/2014
9826632	IP 3163	3.50	13/08/2014
9826636	IP 3163	4.50	13/08/2014
9826641	IP 3164	0.50	13/08/2014
9826646	IP 3164	1.50	13/08/2014
9826650	IP 3164	2.50	13/08/2014
9826654	IP 3164	3.50	13/08/2014
9826659	IP 3164	4.50	13/08/2014
9826667	IP 3164	5.50	13/08/2014
9826506	TPE 910	0.30	13/08/2014
9826510	TPE 910	1.00	13/08/2014
9826514	TPE 910	2.00	13/08/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			9838237	IP 508		0.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9838243	IP 508		0.80	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9838223	IP 508		1.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826397	IP 509		0.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826112	IP 511		0.10	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826342	IP 511		0.40	400g Tub (ALE214)
							60g VOC (ALE215)
			9826463	IP 512		0.20	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9838225	IP 513		0.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9838227	IP 513		0.80	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826304	IP 514		0.20	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826325	IP 514		0.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826331	IP 514		1.00	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9826336	IP 514		1.50	250g Amber Jar
							400g Tub (ALE214)
							60g VOC (ALE215)
			9838231	IP 538		0.20	250g Amber Jar
							400g Tub (ALE214)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60		X			X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142		X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 142	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 142	X	X	X	X	X
pH	All	NDPs: 0 Tests: 142		X	X	X	X
Sample description	All	NDPs: 0 Tests: 142	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 4	X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG: 140818-45
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting
Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie
Order Number: CD0788
Report Number: 295498
Superseded Report: 282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			9838231			9838233			9838236			9838230			9838226			9826204			9826252			9826346			9826352			9826357			9826362			9826368			9826373			9826379
Customer Sample Reference			IP 538			IP 538			IP 538			IP 544			IP 544			IP 546			IP 546			IP 571			IP 571			IP 571			IP 584			IP 585			IP 585			IP 615
AGS Reference																																										
Depth (m)			0.20			0.50			1.50			0.20			1.60			0.20			2.00			0.50			1.50			2.50			0.50			1.00			2.00			0.50
Container			60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60			X						X						X						X									X			X						X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 4																							X																	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			9826385			9826392			9826402			9826408			9826413			9826418			9826425			9826430		9826435			9826441			9826449			9826454			9826469			9826473	
Customer Sample Reference			IP 615			IP 615			IP 633			IP 633			IP 633			IP 634			IP 634			IP 634		IP 661			IP 661			IP 690			IP 690			IP 690			IP 690	
AGS Reference																																										
Depth (m)			1.50			2.50			0.50			1.50			2.50			0.50			1.50			2.50		0.50			2.00			0.50			1.30			1.50			2.50	
Container			250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60								X									X								X						X									
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X	X				X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X		X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 4							X																																	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X		X			X			X			X			X			X	

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

	Lab Sample No(s)		9826473	9826478			9826482			9826486			9826208			9826212			9826216			9826318			9826221			9826225			9826230		9826236			9826240			9826244			9826195
	Customer Sample Reference		IP 690	IP 713			IP 713			IP 713			IP 719			IP 719			IP 719			IP 726			IP 729			IP 729			IP 729		IP 729			IP 729			IP 729			IP 730
	AGS Reference																																									
	Depth (m)		2.50	0.50			0.70			1.50			0.50			1.50			2.50			0.50			0.50			1.00			1.50		2.00			3.00			4.00			0.50
	Container		60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60			X			X						X									X			X			X													
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X	X				X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X
pH	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X		X			X			X		
Sample description	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X		X			X			X			X

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)				9826195			9826200			9826248			9826257			9826261			9826266			9826179			9826183			9826187			9826191			9826300			9826308			9826312		9826149
Customer Sample Reference				IP 730			IP 730			IP 731			IP 731			IP 731			IP 731			IP 732			IP 732			IP 732			IP 732			IP 733			IP 733			IP 733		IP 742
AGS Reference																																										
Depth (m)				0.50			1.50			0.50			1.50			2.50			3.50			0.50			1.50			2.50			3.50			0.50			1.50			2.50		0.50
Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60	X						X												X												X									X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

- X — Test
- N — No Determination Possible

Lab Sample No(s)	9826149	9826153	9826157	9826163	9826271	9826275	9826280	9826132	9826136	9826141	9826145	9826760	9826117	9826121
Customer Sample Reference	IP 742	IP 742	IP 742	IP 742	IP 747	IP 747	IP 747	IP 781	IP 781	IP 781	IP 781	IP 782	IP 782	IP 782
AGS Reference														
Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50	2.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50

Test		
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142
Metals in solid samples by OES	All	NDPs: 0 Tests: 142
PAH by GCMS	All	NDPs: 0 Tests: 142
pH	All	NDPs: 0 Tests: 142
Sample description	All	NDPs: 0 Tests: 142
TPH CWG GC (S)	All	NDPs: 0 Tests: 142

Container	Asbestos fibres in Soil*	EPH CWG (Aliphatic) GC (S)	EPH CWG (Aromatic) GC (S)	GRO by GC-FID (S)	Metals in solid samples by OES	PAH by GCMS	pH	Sample description	TPH CWG GC (S)
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)	X						X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)	X						X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)	X						X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					
250g Amber Jar		X	X		X	X		X	X
400g Tub (ALE214)							X		
60g VOC (ALE215)				X					

SDG: 140818-45
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting
Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie
Order Number: CD0788
Report Number: 295498
Superseded Report: 282899

SOLID

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)			9826127			9826738			9826743			9826748			9826752			9826756			9826717			9826721			9826726			9826730			9826734			9826691			9826696			9826701
Customer Sample Reference			IP782			IP783			IP783			IP783			IP783			IP783			IP784			IP784			IP784			IP784			IP784			IP785			IP785			IP785
AGS Reference																																											
Depth (m)			3.70			0.40			1.50			2.50			3.50			4.50			0.50			1.50			2.50			3.50			4.50			0.50			1.50			2.50
Container			250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60					X															X															X					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
9826701	IP 785		2.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826708	IP 785		3.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826713	IP 785		4.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826671	IP 786		0.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826676	IP 786		1.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826682	IP 786		2.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826686	IP 786		3.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826167	IP 788		0.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826171	IP 788		1.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826175	IP 788		2.50	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826285	IP 790		0.20	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826291	IP 790		0.80	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826296	IP 790		1.80	400g Tub (ALE214)
				60g VOC (ALE215)
				250g Amber Jar
9826558	IP 1306		0.20	400g Tub (ALE214)
				250g Amber Jar

			9826701			9826708			9826713			9826671			9826676			9826682			9826686			9826167			9826171			9826175			9826285			9826291			9826296			9826558
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60										X												X									X			X					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			
Metals in solid samples by OES	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 142				X			X			X			X			X			X			X			X			X			X			X			X			X

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			9826558	9826563			9826572			9826605			9826610			9826523			9826527			9826531		9826535			9826542			9826494		9826498		9826502			9826548			9826553		
Customer Sample Reference			IP 1306	IP 1306			IP 1306			IP 1354			IP 1354			IP 1760			IP 1760			IP 1938		IP 1938			IP 1938			IP 2501		IP 2501		IP 2501			IP 3039			IP 3039		
AGS Reference																																										
Depth (m)			0.20	0.50			2.50			0.50			1.30			0.20			1.00			0.30		1.00			1.60			0.20		0.40		1.50			0.50			1.40		
Container			60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60			X						X						X			X		X			X					X		X						X				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X			X			X		X		X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X			X			X		X		X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X		X			X			X		X		X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X			X			X		X		X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X				X		X		X		X			X			X		
pH	All	NDPs: 0 Tests: 142			X			X			X			X			X			X		X			X			X		X		X			X			X			X	
Sample description	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X			X			X		X		X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 142		X			X			X			X			X			X			X		X			X			X		X		X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	9826576	9826580	9826584	9826589	9826597	9826601	9826614	9826618	9826627	9826632	9826636	9826641	9826646	9826650
Customer Sample Reference	IP 3095	IP 3095	IP 3095	IP 3105	IP 3105	IP 3105	IP 3163	IP 3163	IP 3163	IP 3163	IP 3163	IP 3164	IP 3164	IP 3164
AGS Reference														
Depth (m)	0.50	1.50	2.50	0.30	1.50	2.70	0.50	1.50	2.50	3.50	4.50	0.50	1.50	2.50
Container	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60		X						X					X											X																					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
PAH by GCMS	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
pH	All	NDPs: 0 Tests: 142		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		
Sample description	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	9826650	9826654	9826659	9826667	9826506	9826510	9826514
Customer Sample Reference	IP 3164	IP 3164	IP 3164	IP 3164	TPE 910	TPE 910	TPE 910
AGS Reference							
Depth (m)	2.50	3.50	4.50	5.50	0.30	1.00	2.00
Container	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 60											X			X											
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 142	X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 142			X			X			X			X			X			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9838223	IP 508	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9838237	IP 508	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9838243	IP 508	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826397	IP 509	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826112	IP 511	0.10	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826342	IP 511	0.40	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826463	IP 512	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9838225	IP 513	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9838227	IP 513	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826304	IP 514	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826325	IP 514	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
9826331	IP 514	1.00	Dark Brown	Stone/Soil	2 - 10 mm	Stones	Brick
9826336	IP 514	1.50	Dark Brown	Stone/Soil	0.1 - 2 mm	Vegetation	None
9838231	IP 538	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9838233	IP 538	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9838236	IP 538	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9838226	IP 544	1.60	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9838230	IP 544	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826204	IP 546	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826252	IP 546	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826346	IP 571	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9826352	IP 571	1.50	Black	Sandy Loam	0.1 - 2 mm	Stones	None
9826357	IP 571	2.50	Black	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9826362	IP 584	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9826368	IP 585	1.00	Black	Sandy Loam	0.1 - 2 mm	Stones	None
9826373	IP 585	2.00	Black	Sandy Loam	0.1 - 2 mm	Stones	None
9826379	IP 615	0.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826385	IP 615	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826392	IP 615	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826402	IP 633	0.50	Light Brown	Silty Clay Loam	0.1 - 2 mm	Stones	None
9826408	IP 633	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9826413	IP 633	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9826418	IP 634	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826425	IP 634	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826430	IP 634	2.50	Dark Brown	Stone/Soil	2 - 10 mm	Stones	None
9826435	IP 661	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9826441	IP 661	2.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826449	IP 690	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

			Colour	Description	Grain size	Inclusions	Inclusions 2
9826454	IP 690	1.30	Black	Silt Loam	0.063 - 0.1 mm	None	None
9826469	IP 690	1.50	Grey	Sand	0.1 - 2 mm	Stones	None
9826473	IP 690	2.50	Dark Brown	Stone/Soil	2 - 10 mm	Stones	Oil/Petroleum
9826478	IP 713	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826482	IP 713	0.70	Dark Brown	Clay Loam	0.063 - 0.1 mm	None	None
9826486	IP 713	1.50	Dark Brown	Stone/Soil	> 10 mm	Stones	None
9826208	IP 719	0.50	Dark Brown	Silt Loam	0.063 - 0.1 mm	Vegetation	Stones
9826212	IP 719	1.50	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	None
9826216	IP 719	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826318	IP 726	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826221	IP 729	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	Stones
9826225	IP 729	1.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9826230	IP 729	1.50	Light Brown	Silt Loam	0.063 - 0.1 mm	None	None
9826236	IP 729	2.00	Dark Brown	Loamy Sand	0.063 - 0.1 mm	None	None
9826240	IP 729	3.00	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
9826244	IP 729	4.00	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9826195	IP 730	0.50	Black	Sand	0.1 - 2 mm	Stones	None
9826200	IP 730	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826248	IP 731	0.50	Dark Brown	Sand	0.1 - 2 mm	Vegetation	Stones
9826257	IP 731	1.50	Dark Brown	Loamy Sand	0.063 - 0.1 mm	None	Stones
9826261	IP 731	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
9826266	IP 731	3.50	Dark Brown	Loamy Sand	0.063 - 0.1 mm	None	None
9826179	IP 732	0.50	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9826183	IP 732	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826187	IP 732	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826191	IP 732	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826300	IP 733	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9826308	IP 733	1.50	Black	Sandy Clay	0.063 - 0.1 mm	None	None
9826312	IP 733	2.50	Grey	Sandy Silt Loam	0.1 - 2 mm	None	None
9826149	IP 742	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9826153	IP 742	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826157	IP 742	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826163	IP 742	3.50	Grey	Loamy Sand	0.063 - 0.1 mm	Stones	N/A
9826271	IP 747	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826275	IP 747	1.50	Light Brown	Loamy Sand	0.1 - 2 mm	None	None
9826280	IP 747	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826132	IP 781	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826136	IP 781	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9826141	IP 781	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826145	IP 781	3.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826117	IP 782	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

			Colour	Description	Grain size	Inclusions	Inclusions 2
9826121	IP 782	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826127	IP 782	3.70	Grey	Loamy Sand	0.063 - 0.1 mm	Stones	N/A
9826760	IP 782	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826738	IP 783	0.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826743	IP 783	1.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9826748	IP 783	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	None
9826752	IP 783	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9826756	IP 783	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826717	IP 784	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826721	IP 784	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826726	IP 784	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9826730	IP 784	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826734	IP 784	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826691	IP 785	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826696	IP 785	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826701	IP 785	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826708	IP 785	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826713	IP 785	4.50	Black	Loamy Sand	0.1 - 2 mm	Stones	None
9826671	IP 786	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826676	IP 786	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826682	IP 786	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826686	IP 786	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826167	IP 788	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Concrete/Aggregate	Vegetation
9826171	IP 788	1.50	Dark Brown	Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9826175	IP 788	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9826285	IP 790	0.20	Dark Brown	Silty Clay Loam	<0.063 mm	N/A	N/A
9826291	IP 790	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9826296	IP 790	1.80	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9826558	IP 1306	0.20	Beige	Sandy Loam	0.1 - 2 mm	Stones	None
9826563	IP 1306	0.50	Beige	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9826572	IP 1306	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826605	IP 1354	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Brick
9826610	IP 1354	1.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826523	IP 1760	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
9826527	IP 1760	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9826531	IP 1938	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826535	IP 1938	1.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9826542	IP 1938	1.60	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9826494	IP 2501	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826498	IP 2501	0.40	Black	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826502	IP 2501	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

			Colour	Description	Grain size	Inclusions	Inclusions 2
9826548	IP 3039	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826553	IP 3039	1.40	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826576	IP 3095	0.50	Beige	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9826580	IP 3095	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826584	IP 3095	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826589	IP 3105	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826597	IP 3105	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826601	IP 3105	2.70	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9826614	IP 3163	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Fibres
9826618	IP 3163	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9826627	IP 3163	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826632	IP 3163	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9826636	IP 3163	4.50	Black	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9826641	IP 3164	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826646	IP 3164	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9826650	IP 3164	2.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826654	IP 3164	3.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826659	IP 3164	4.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9826667	IP 3164	5.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9826506	TPE 910	0.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9826510	TPE 910	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9826514	TPE 910	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 508	IP 508	IP 508	IP 509	IP 511	IP 511
			Depth (m)	0.50	0.80	1.50	0.50	0.10	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	-	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9838237	9838243	9838223	9826397	9826112	9826342
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.5 §	19 §	13 §	11	30	14
Actinolite*	-	SUB (ASB)		Not Detected § #	Not Detected § #		Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected § #	Not Detected § #		Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected § #	Not Detected § #		Not Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected § #	Not Detected § #		Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected § #	Not Detected § #		Not Detected #	Not Detected #	Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132		3.45 § #				6.31 #	
pH	1 pH Units	TM133		7.76 § M	6.8 § M	5.45 § M	7.54 M	6.94 M	7.4 M
Arsenic	<0.6 mg/kg	TM181		39.8 § M	12.8 § M	11.4 § M	28.4 M	45.3 M	13.5 M
Cadmium	<0.02 mg/kg	TM181		0.988 § M	0.864 § M	0.715 § M	1.65 M	1.23 M	0.341 M
Chromium	<0.9 mg/kg	TM181		17.7 § M	16.7 § M	18.6 § M	35.3 M	23.4 M	12.8 M
Copper	<1.4 mg/kg	TM181		90.5 § M	59.5 § M	14.4 § M	78.2 M	219 M	31.5 M
Lead	<0.7 mg/kg	TM181		126 § M	19.3 § M	21.2 § M	452 M	425 M	73.4 M
Mercury	<0.14 mg/kg	TM181		<0.14 § M	<0.14 § M	<0.14 § M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		25 § M	17.3 § M	26.9 § M	44.5 M	28 M	36.3 M
Selenium	<1 mg/kg	TM181		<1 § #	1.21 § #	<1 § #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18.6 § #	23.2 § #	18 § #	20 #	19.5 #	13.4 #
Zinc	<1.9 mg/kg	TM181		174 § M	92.6 § M	107 § M	340 M	414 M	136 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 512	IP 513	IP 513	IP 514	IP 514	IP 514
			Depth (m)	0.20	0.50	0.80	0.20	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826463	9838225	9838227	9826304	9826325	9826331
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	15 §	17 §	26	18	15
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected § #	Not Detected § #	Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected § #	Not Detected § #	Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected § #	Not Detected § #	Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected § #	Not Detected § #	Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected § #	Not Detected § #	Not Detected #	Not Detected #	Not Detected #
pH	1 pH Units	TM133		8.21 M	7.06 § M	6.44 § M	7.43 M	6.6 M	6.5 #
Arsenic	<0.6 mg/kg	TM181		33.7 M	46 § M	14.6 § M	40 M	8.67 M	19.7 #
Cadmium	<0.02 mg/kg	TM181		1.26 M	0.717 § M	0.908 § M	1.18 M	0.457 M	1.18 #
Chromium	<0.9 mg/kg	TM181		25.7 M	15.5 § M	16.1 § M	34.3 M	15.8 M	23 #
Copper	<1.4 mg/kg	TM181		85.4 M	90.1 § M	60.3 § M	91.4 M	10.4 M	<14 #
Lead	<0.7 mg/kg	TM181		262 M	75.7 § M	20.3 § M	356 M	12.7 M	21.4 #
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 § M	<0.14 § M	<0.14 M	<0.14 M	<0.14 #
Nickel	<0.2 mg/kg	TM181		30.8 M	22 § M	17.7 § M	26 M	19.3 M	36.7 #
Selenium	<1 mg/kg	TM181		<1 #	<1 § #	<1 § #	<1 #	<1 #	<10 #
Vanadium	<0.2 mg/kg	TM181		22.2 #	21.8 § #	23.9 § #	32.6 #	18.8 #	28.4 #
Zinc	<1.9 mg/kg	TM181		235 M	119 § M	108 § M	198 M	64.9 M	82.2 #

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 514	IP 538	IP 538	IP 538	IP 544	IP 544
			Depth (m)	1.50	0.20	0.50	1.50	0.20	1.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	-	-	-
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826336	9838231	9838233	9838236	9838230	9838226
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		6.8	27 §	20 §	14 §	26 §	13 §
Actinolite*	-	SUB (ASB)			Not Detected § #	Not Detected § #		Not Detected § #	
Amosite*	-	SUB (ASB)			Not Detected § #	Not Detected § #		Not Detected § #	
Chrysotile*	-	SUB (ASB)			Not Detected § #	Not Detected § #		Not Detected § #	
Crocidolite*	-	SUB (ASB)			Not Detected § #	Not Detected § #		Not Detected § #	
Tremolite*	-	SUB (ASB)			Not Detected § #	Not Detected § #		Not Detected § #	
pH	1 pH Units	TM133		6.46 #	6.37 § M	6.78 § M	6.65 § M	6.19 § M	5.87 § M
Arsenic	<0.6 mg/kg	TM181		8.1 #	91.7 § M	21 § M	31.9 § M	73.1 § M	11.9 § M
Cadmium	<0.02 mg/kg	TM181		0.483 #	1.41 § M	0.542 § M	0.987 § M	1.4 § M	0.689 § M
Chromium	<0.9 mg/kg	TM181		15.3 #	15.8 § M	12.4 § M	24 § M	32.5 § M	15.3 § M
Copper	<1.4 mg/kg	TM181		4.02 #	160 § M	39.3 § M	29.9 § M	81.7 § M	16.5 § M
Lead	<0.7 mg/kg	TM181		12.1 #	252 § M	45.8 § M	39.4 § M	277 § M	22.6 § M
Mercury	<0.14 mg/kg	TM181		<0.14 #	<0.14 § M	<0.14 § M	<0.14 § M	<0.14 § M	<0.14 § M
Nickel	<0.2 mg/kg	TM181		32.2 #	24.7 § M	14.8 § M	49.9 § M	40 § M	28.5 § M
Selenium	<1 mg/kg	TM181		<1 #	1.24 § #	<1 § #	<10 § #	<10 § #	<1 § #
Vanadium	<0.2 mg/kg	TM181		13.2 #	22.7 § #	20.1 § #	29.1 § #	22.4 § #	16.2 § #
Zinc	<1.9 mg/kg	TM181		59.8 #	151 § M	69.8 § M	121 § M	117 § M	88.7 § M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 546	IP 546	IP 571	IP 571	IP 571	IP 584
			Depth (m)	0.20	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826204	9826252	9826346	9826352	9826357	9826362
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	9.3	9.5	12	11	11
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132					1.93 #		
pH	1 pH Units	TM133		7.06 M	6.85 M	6.92 M	6.75 M	6.72 M	6.07 M
Arsenic	<0.6 mg/kg	TM181		45 M	8.06 M	15.8 M	10.1 M	8.69 M	11.4 M
Cadmium	<0.02 mg/kg	TM181		0.812 M	0.407 M	0.359 M	0.525 M	0.488 M	0.333 M
Chromium	<0.9 mg/kg	TM181		29 M	13.3 M	11.7 M	13.8 M	15.3 M	15.9 M
Copper	<1.4 mg/kg	TM181		78.2 M	12.7 M	15.7 M	14.2 M	17.3 M	14.9 M
Lead	<0.7 mg/kg	TM181		193 M	14.9 M	74.9 M	62 M	105 M	29.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		26.1 M	29.2 M	26.4 M	27.9 M	31.8 M	27.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		20.8 #	14.1 #	13.5 #	15.1 #	17.5 #	21.6 #
Zinc	<1.9 mg/kg	TM181		146 M	83.1 M	85.4 M	89.3 M	90.7 M	82.5 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 585	IP 585	IP 615	IP 615	IP 615	IP 633
			Depth (m)	1.00	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826368	9826373	9826379	9826385	9826392	9826402
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	9.3	7.7	12	12	16
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132							4.67 #
pH	1 pH Units	TM133		5.39 M	5.94 M	5.87 M	5.44 M	5.56 M	7.15 M
Arsenic	<0.6 mg/kg	TM181		6.88 M	9.58 M	18.5 M	7.5 M	8.09 M	23.2 M
Cadmium	<0.02 mg/kg	TM181		0.37 M	0.396 M	0.532 M	0.351 M	0.383 M	0.607 M
Chromium	<0.9 mg/kg	TM181		12.1 M	12.8 M	16.9 M	11.3 M	11.7 M	16.3 M
Copper	<1.4 mg/kg	TM181		18.7 M	15.1 M	22 M	14.2 M	14.1 M	37.6 M
Lead	<0.7 mg/kg	TM181		18.6 M	14.7 M	39.2 M	20.5 M	15.1 M	111 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		30.5 M	30.7 M	26.2 M	27.9 M	29.5 M	22.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		14.2 #	14.4 #	18.8 #	12.5 #	12.7 #	17.1 #
Zinc	<1.9 mg/kg	TM181		81.4 M	83.1 M	121 M	75.4 M	76.9 M	123 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 633	IP 633	IP 634	IP 634	IP 634	IP 661
			Depth (m)	1.50	2.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826408	9826413	9826418	9826425	9826430	9826435
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	12	19	9.4	11	12
Actinolite*	-	SUB (ASB)				Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)				Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)				Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)				Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)				Not Detected #			Not Detected #
pH	1 pH Units	TM133		5.66 M	5.52 M	6.63 M	5.38 M	5.29 #	6.68 M
Arsenic	<0.6 mg/kg	TM181		12.1 M	15.3 M	20 M	9.59 M	11.3 #	19.7 M
Cadmium	<0.02 mg/kg	TM181		0.49 M	0.498 M	0.985 M	0.104 M	0.401 #	1.07 M
Chromium	<0.9 mg/kg	TM181		15 M	14.1 M	23.2 M	14.6 M	16.3 #	15.6 M
Copper	<1.4 mg/kg	TM181		18.6 M	22.7 M	37.6 M	12.1 M	16.2 #	45.4 M
Lead	<0.7 mg/kg	TM181		21 M	20.3 M	256 M	14.2 M	14.8 #	260 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 #	<0.14 M
Nickel	<0.2 mg/kg	TM181		25.7 M	25.1 M	21.8 M	24.7 M	28 #	26.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.3 #	16.9 #	20.9 #	18.5 #	20.7 #	17.9 #
Zinc	<1.9 mg/kg	TM181		86.4 M	82.1 M	160 M	80.4 M	89.8 #	492 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 661	IP 690	IP 690	IP 690	IP 690	IP 713
			Depth (m)	2.00	0.50	1.30	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826441	9826449	9826454	9826469	9826473	9826478
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	16	46	12	10	16
Actinolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Amosite*	-	SUB (ASB)			Not Detected #				Not Detected #
Chrysotile*	-	SUB (ASB)			Not Detected #				Not Detected #
Crocidolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Tremolite*	-	SUB (ASB)			Not Detected #				Not Detected #
pH	1 pH Units	TM133		6.02 M	5.45 M	5.42 M	6.27 M	5.99 #	5.71 M
Arsenic	<0.6 mg/kg	TM181		9.44 M	32.4 M	5.33 M	9.41 M	8.52 #	22.1 M
Cadmium	<0.02 mg/kg	TM181		0.423 M	1.03 M	0.65 M	0.389 M	0.2 #	0.672 M
Chromium	<0.9 mg/kg	TM181		14.5 M	13.4 M	8.62 M	14.7 M	12.8 #	13.1 M
Copper	<1.4 mg/kg	TM181		13.9 M	46.9 M	10.9 M	16.7 M	12.7 #	28.9 M
Lead	<0.7 mg/kg	TM181		18.2 M	98.4 M	18 M	15.1 M	12 #	62.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 #	<0.14 M
Nickel	<0.2 mg/kg	TM181		23.5 M	25.2 M	6.87 M	24.9 M	24.2 #	23.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.47 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.7 #	19.5 #	9.24 #	16.2 #	14.7 #	16.9 #
Zinc	<1.9 mg/kg	TM181		78 M	159 M	50.3 M	78.9 M	69.6 #	93.7 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 713	IP 713	IP 719	IP 719	IP 719	IP 726
			Depth (m)	0.70	1.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826482	9826486	9826208	9826212	9826216	9826318
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		69	11	13	15	12	9.4
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
pH	1 pH Units	TM133		6.05 M	5.59 #	6.71 M	5.13 M	6.23 M	5.28 M
Arsenic	<0.6 mg/kg	TM181		27.8 M	7.93 #	21.3 M	14.3 M	8.63 M	16 M
Cadmium	<0.02 mg/kg	TM181		1.01 M	0.353 #	0.405 M	0.799 M	0.846 M	0.63 M
Chromium	<0.9 mg/kg	TM181		8 M	12.9 #	15.7 M	15.8 M	11.4 M	13.2 M
Copper	<1.4 mg/kg	TM181		30.1 M	13.1 #	76.8 M	31.2 M	13.3 M	29.7 M
Lead	<0.7 mg/kg	TM181		27.7 M	16.4 #	31 M	23.1 M	12.1 M	40.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 #	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		12.2 M	21.8 #	23.1 M	24.6 M	25.6 M	24.1 M
Selenium	<1 mg/kg	TM181		1.58 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.2 #	14 #	22.5 #	19.3 #	13 #	16.4 #
Zinc	<1.9 mg/kg	TM181		78.5 M	64.4 #	101 M	321 M	115 M	80.9 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 729	IP 729	IP 729	IP 729	IP 729	IP 729
			Depth (m)	0.50	1.00	1.50	2.00	3.00	4.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826221	9826225	9826230	9826236	9826240	9826244
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	26	20	15	7.2	9.3
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #				
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #				
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #				
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #				
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #				
pH	1 pH Units	TM133		5.18 M	5.57 M	5.64 M	6.72 M	6.57 M	6.74 M
Arsenic	<0.6 mg/kg	TM181		19.2 M	71.6 M	7.62 M	10.3 M	9.12 M	10.3 M
Cadmium	<0.02 mg/kg	TM181		0.672 M	1.44 M	0.308 M	0.438 M	0.33 M	0.429 M
Chromium	<0.9 mg/kg	TM181		13.8 M	13.1 M	18 M	20.1 M	11.5 M	12.6 M
Copper	<1.4 mg/kg	TM181		38.8 M	113 M	45.3 M	15.1 M	15.3 M	15.4 M
Lead	<0.7 mg/kg	TM181		24.6 M	123 M	15.6 M	12.7 M	15.6 M	20.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		19.8 M	33.4 M	26.3 M	21.1 M	24 M	32.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18 #	22.1 #	26.6 #	25.5 #	12.4 #	12.8 #
Zinc	<1.9 mg/kg	TM181		64.9 M	115 M	86.6 M	64.4 M	57.7 M	74.5 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 730	IP 730	IP 731	IP 731	IP 731	IP 731
			Depth (m)	0.50	1.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826195	9826200	9826248	9826257	9826261	9826266
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		27	17	11	14	16	14
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #			
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			
pH	1 pH Units	TM133		6.35 M	5.46 M	7.55 M	6.49 M	5.11 M	5.75 M
Arsenic	<0.6 mg/kg	TM181		23.1 M	10.1 M	15.6 M	27.2 M	36.8 M	8.44 M
Cadmium	<0.02 mg/kg	TM181		2.57 M	0.265 M	0.501 M	0.921 M	0.66 M	0.426 M
Chromium	<0.9 mg/kg	TM181		22.8 M	18.4 M	43.9 M	13.6 M	6.9 M	14.6 M
Copper	<1.4 mg/kg	TM181		702 M	8.9 M	40.5 M	48 M	84.9 M	17.8 M
Lead	<0.7 mg/kg	TM181		83.9 M	12.6 M	26.5 M	25.6 M	27.2 M	15.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		53.9 M	14.6 M	29.1 M	17.4 M	5.58 M	16.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		36.5 #	25 #	92.9 #	17.3 #	11.6 #	18.3 #
Zinc	<1.9 mg/kg	TM181		338 M	39.2 M	197 M	100 M	37 M	48.5 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 732	IP 732	IP 732	IP 732	IP 733	IP 733
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826179	9826183	9826187	9826191	9826300	9826308
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		8	19	14	9.2	20	12
Actinolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Chrysotile*	-	SUB (ASB)		Not Detected #				Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
pH	1 pH Units	TM133		6.54 M	6.25 M	5.26 M	6.08 M	4.97 M	6.15 M
Arsenic	<0.6 mg/kg	TM181		11.6 M	25.7 M	11.9 M	14.8 M	13.9 M	14.4 M
Cadmium	<0.02 mg/kg	TM181		0.8 M	0.475 M	0.506 M	0.379 M	0.373 M	0.398 M
Chromium	<0.9 mg/kg	TM181		27.3 M	18.5 M	16.5 M	13.1 M	14.8 M	11.9 M
Copper	<1.4 mg/kg	TM181		33.8 M	43 M	22.1 M	30.9 M	33.7 M	27.4 M
Lead	<0.7 mg/kg	TM181		32.6 M	27.9 M	17 M	19 M	20.6 M	19 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	1.12 M	0.715 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		19.7 M	18.2 M	19.9 M	27.7 M	10.5 M	28.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		69.9 #	24.4 #	17.3 #	17.3 #	18.4 #	15 #
Zinc	<1.9 mg/kg	TM181		62.4 M	82.4 M	67.8 M	77.4 M	60 M	79.9 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 733	IP 742	IP 742	IP 742	IP 742	IP 747
			Depth (m)	2.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826312	9826149	9826153	9826157	9826163	9826271
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		19	14	11	11	10	16
Actinolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Amosite*	-	SUB (ASB)			Not Detected #				Not Detected #
Chrysotile*	-	SUB (ASB)			Not Detected #				Not Detected #
Crocidolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Tremolite*	-	SUB (ASB)			Not Detected #				Not Detected #
pH	1 pH Units	TM133		5.55 M	6.05 M	6.49 M	6.47 M	6.1 M	5.73 M
Arsenic	<0.6 mg/kg	TM181		11.8 M	19.3 M	12 M	9.44 M	13.8 M	9.7 M
Cadmium	<0.02 mg/kg	TM181		0.455 M	0.576 M	0.381 M	0.348 M	0.302 M	0.256 M
Chromium	<0.9 mg/kg	TM181		14.8 M	14.8 M	16.1 M	10.9 M	11.5 M	12.6 M
Copper	<1.4 mg/kg	TM181		23.1 M	28.8 M	24.8 M	17.3 M	10.9 M	20.1 M
Lead	<0.7 mg/kg	TM181		20.3 M	75.4 M	28.4 M	15.3 M	11.2 M	16.6 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		13.2 M	19.2 M	26.4 M	26 M	28.1 M	25.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.7 #	15.8 #	16 #	12.4 #	11.5 #	14.4 #
Zinc	<1.9 mg/kg	TM181		51.4 M	98.8 M	110 M	65.1 M	60.4 M	55.2 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 747	IP 747	IP 781	IP 781	IP 781	IP 781
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826275	9826280	9826132	9826136	9826141	9826145
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		17	20	14	18	13	13
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
pH	1 pH Units	TM133		7.05 M	6.13 M	5.62 M	5.81 M	5.54 M	5.2 M
Arsenic	<0.6 mg/kg	TM181		8.67 M	11.8 M	20.9 M	38.4 M	9 M	9.64 M
Cadmium	<0.02 mg/kg	TM181		0.286 M	0.309 M	0.603 M	0.827 M	0.36 M	0.345 M
Chromium	<0.9 mg/kg	TM181		15 M	17 M	12.5 M	12.3 M	13.2 M	10.3 M
Copper	<1.4 mg/kg	TM181		7.8 M	8.49 M	40.2 M	75.4 M	15.6 M	14.3 M
Lead	<0.7 mg/kg	TM181		13.3 M	14.2 M	25.8 M	54.9 M	13.5 M	14.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.415 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		16.4 M	18.1 M	12.6 M	13.1 M	17.8 M	29.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		19.8 #	21.7 #	17.1 #	20.1 #	14.8 #	12.1 #
Zinc	<1.9 mg/kg	TM181		37.8 M	40.5 M	76.8 M	74.5 M	66.1 M	68.2 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 782	IP 782	IP 782	IP 782	IP 783	IP 783
			Depth (m)	0.50	1.50	2.50	3.70	0.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826760	9826117	9826121	9826127	9826738	9826743
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	12	11	11	12	10
Actinolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Chrysotile*	-	SUB (ASB)		Not Detected #				Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
pH	1 pH Units	TM133		6.83 M	5.09 M	5.72 M	5.84 M	7.46 M	5.3 M
Arsenic	<0.6 mg/kg	TM181		21.9 M	10.9 M	7.41 M	13.5 M	9 M	10.6 M
Cadmium	<0.02 mg/kg	TM181		1.09 M	0.675 M	0.379 M	0.338 M	0.221 M	0.44 M
Chromium	<0.9 mg/kg	TM181		11.9 M	11.2 M	10.3 M	10.2 M	12.1 M	12.7 M
Copper	<1.4 mg/kg	TM181		32.2 M	20.1 M	9.91 M	9.5 M	20.3 M	16 M
Lead	<0.7 mg/kg	TM181		117 M	26.5 M	11.3 M	11.8 M	55.3 M	118 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		21.9 M	17.8 M	24.7 M	26.1 M	18.2 M	22.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.3 #	12.3 #	10.1 #	10.6 #	14 #	13.6 #
Zinc	<1.9 mg/kg	TM181		322 M	143 M	63.2 M	57.5 M	63.4 M	113 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 783	IP 783	IP 783	IP 784	IP 784	IP 784
			Depth (m)	2.50	3.50	4.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826748	9826752	9826756	9826717	9826721	9826726
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	11	10	17	16	12
Actinolite*	-	SUB (ASB)					Not Detected #		
Amosite*	-	SUB (ASB)					Not Detected #		
Chrysotile*	-	SUB (ASB)					Not Detected #		
Crocidolite*	-	SUB (ASB)					Not Detected #		
Tremolite*	-	SUB (ASB)					Not Detected #		
pH	1 pH Units	TM133		6.2 M	6.64 M	6.63 M	7.1 M	7.18 M	5.47 M
Arsenic	<0.6 mg/kg	TM181		8.02 M	7.87 M	6.96 M	11.1 M	9.19 M	7.14 M
Cadmium	<0.02 mg/kg	TM181		0.333 M	0.309 M	0.346 M	0.216 M	0.26 M	0.342 M
Chromium	<0.9 mg/kg	TM181		10.4 M	9.23 M	10.3 M	20.4 M	15.3 M	10.9 M
Copper	<1.4 mg/kg	TM181		10.5 M	8.88 M	9.95 M	12.5 M	15.2 M	9.85 M
Lead	<0.7 mg/kg	TM181		13.8 M	10.2 M	10.5 M	15.1 M	13.3 M	10.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.671 M	<0.14 M	<0.14 M	0.741 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		23.6 M	23.9 M	24.9 M	14.1 M	14.2 M	22.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		10.5 #	9.68 #	10.5 #	25.3 #	19.1 #	11.2 #
Zinc	<1.9 mg/kg	TM181		56.2 M	53.1 M	56.9 M	48.1 M	33.7 M	54.9 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 784	IP 784	IP 785	IP 785	IP 785	IP 785
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826730	9826734	9826691	9826696	9826701	9826708
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	11	20	12	12	11
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
pH	1 pH Units	TM133		6.48 M	6.28 M	7.7 M	5.81 M	6.56 M	6.45 M
Arsenic	<0.6 mg/kg	TM181		7.31 M	7.59 M	14.8 M	6.68 M	8.66 M	7.6 M
Cadmium	<0.02 mg/kg	TM181		0.458 M	0.312 M	0.74 M	0.332 M	0.319 M	0.357 M
Chromium	<0.9 mg/kg	TM181		11.2 M	10.1 M	13 M	8.8 M	9.43 M	13.4 M
Copper	<1.4 mg/kg	TM181		8.96 M	9.98 M	54.8 M	9.21 M	8.75 M	20.8 M
Lead	<0.7 mg/kg	TM181		9.9 M	10.1 M	16.1 M	10.2 M	16.1 M	12.2 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.182 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		24.3 M	22.7 M	14.3 M	23 M	22.2 M	28.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15 #	10.6 #	15.5 #	9.38 #	9.88 #	12.3 #
Zinc	<1.9 mg/kg	TM181		52.4 M	54.8 M	80.5 M	53.2 M	54.1 M	57.7 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 785	IP 786	IP 786	IP 786	IP 786	IP 788
			Depth (m)	4.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826713	9826671	9826676	9826682	9826686	9826167
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	18	9.9	10	11	12
Actinolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Amosite*	-	SUB (ASB)			Not Detected #				Not Detected #
Chrysotile*	-	SUB (ASB)			Not Detected #				Detected #
Crocidolite*	-	SUB (ASB)			Not Detected #				Not Detected #
Tremolite*	-	SUB (ASB)			Not Detected #				Not Detected #
pH	1 pH Units	TM133		6.48 M	7.73 M	5.98 M	6.74 M	6.77 M	8.27 M
Arsenic	<0.6 mg/kg	TM181		7.75 M	10.5 M	15.1 M	7.55 M	7.73 M	12.9 M
Cadmium	<0.02 mg/kg	TM181		0.353 M	0.706 M	0.392 M	0.328 M	0.306 M	1.25 M
Chromium	<0.9 mg/kg	TM181		10.7 M	15.2 M	12.8 M	9.74 M	10.1 M	17.6 M
Copper	<1.4 mg/kg	TM181		11.7 M	16.8 M	23.7 M	9.23 M	9.92 M	76 M
Lead	<0.7 mg/kg	TM181		13.7 M	92.4 M	17.4 M	10.7 M	16.7 M	92.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 @ M
Nickel	<0.2 mg/kg	TM181		24 M	16 M	33.2 M	23.3 M	22.9 M	29.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.3 #	15.6 #	15 #	10.4 #	10.1 #	17.7 #
Zinc	<1.9 mg/kg	TM181		59.5 M	120 M	84.5 M	54.8 M	56.7 M	266 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 788	IP 788	IP 790	IP 790	IP 790	IP 1306
			Depth (m)	1.50	2.50	0.20	0.80	1.80	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826171	9826175	9826285	9826291	9826296	9826558
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		28	13	26	12	24	9.3
Actinolite*	-	SUB (ASB)				Not Detected #	Not Detected #		Not Detected #
Amosite*	-	SUB (ASB)				Not Detected #	Not Detected #		Not Detected #
Chrysotile*	-	SUB (ASB)				Detected #	Not Detected #		Not Detected #
Crocidolite*	-	SUB (ASB)				Not Detected #	Not Detected #		Not Detected #
Tremolite*	-	SUB (ASB)				Not Detected #	Not Detected #		Not Detected #
pH	1 pH Units	TM133		8.06 M	6.21 M	7.35 M	6.95 M	5.11 M	7.7 M
Arsenic	<0.6 mg/kg	TM181		63.9 M	8.72 M	46.1 M	12.5 M	37.6 M	17.3 M
Cadmium	<0.02 mg/kg	TM181		0.681 M	0.376 M	0.628 M	0.409 M	0.512 M	0.254 M
Chromium	<0.9 mg/kg	TM181		12.2 M	13.3 M	11 M	12.8 M	14.1 M	10.5 M
Copper	<1.4 mg/kg	TM181		120 M	26.5 M	108 M	26.1 M	87.6 M	20.7 M
Lead	<0.7 mg/kg	TM181		58.4 M	19.7 M	32 M	19.8 M	26.6 M	111 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	3.35 M	<0.14 M	<0.14 M	1.42 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		9.55 M	30.7 M	11 M	22.3 M	13.2 M	19 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.9 #	18.4 #	14.3 #	15.8 #	18.1 #	16.2 #
Zinc	<1.9 mg/kg	TM181		77.9 M	79.3 M	37.5 M	80.7 M	36.1 M	77.6 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 1306	IP 1306	IP 1354	IP 1354	IP 1760	IP 1760
			Depth (m)	0.50	2.50	0.50	1.30	0.20	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826563	9826572	9826605	9826610	9826523	9826527
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.4	11	11	17	18	17
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #		Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #		Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #		Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #		Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #		Not Detected #	Not Detected #
pH	1 pH Units	TM133		6.54 M	7.75 M	8.23 M	7.73 M	5.98 M	6.23 M
Arsenic	<0.6 mg/kg	TM181		7.71 M	7.55 M	24.9 M	29 M	65.7 M	21.7 M
Cadmium	<0.02 mg/kg	TM181		0.246 M	0.369 M	0.934 M	1.63 M	2.4 M	0.795 M
Chromium	<0.9 mg/kg	TM181		11.1 M	11.3 M	17.7 M	23.1 M	14.4 M	13.6 M
Copper	<1.4 mg/kg	TM181		12.2 M	11.2 M	52.4 M	67.6 M	133 M	44.6 M
Lead	<0.7 mg/kg	TM181		16 M	14.6 M	419 M	955 M	79.7 M	26.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	1.07 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22.3 M	20.4 M	26.1 M	33.8 M	24.1 M	14.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		12 #	12.4 #	21.9 #	32.1 #	21.1 #	21 #
Zinc	<1.9 mg/kg	TM181		56.7 M	57.2 M	272 M	666 M	246 M	120 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 1938	IP 1938	IP 1938	IP 2501	IP 2501	IP 2501
			Depth (m)	0.30	1.00	1.60	0.20	0.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826531	9826535	9826542	9826494	9826498	9826502
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	14	11	20	40	10
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #	Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #	Not Detected #	
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #	Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #	Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #	Not Detected #	
pH	1 pH Units	TM133		8.27 M	7.7 M	5.87 M	6.06 M	6.37 M	6.07 M
Arsenic	<0.6 mg/kg	TM181		23.2 M	18.7 M	5.24 M	45.5 M	82.7 M	10.8 M
Cadmium	<0.02 mg/kg	TM181		0.992 M	0.556 M	0.379 M	1.26 M	5.5 M	0.474 M
Chromium	<0.9 mg/kg	TM181		19.7 M	14.8 M	14.5 M	23.6 M	17.2 M	12.2 M
Copper	<1.4 mg/kg	TM181		72.7 M	39.3 M	7.17 M	111 M	154 M	14.6 M
Lead	<0.7 mg/kg	TM181		320 M	54.7 M	14.2 M	982 M	197 M	25.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.278 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		21.2 M	23.9 M	30.2 M	28.3 M	69 M	21.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.21 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.5 #	18.8 #	15.2 #	19.5 #	43.2 #	12.7 #
Zinc	<1.9 mg/kg	TM181		570 M	165 M	73.8 M	473 M	337 M	92.9 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3039	IP 3039	IP 3095	IP 3095	IP 3095	IP 3105
			Depth (m)	0.50	1.40	0.50	1.50	2.50	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826548	9826553	9826576	9826580	9826584	9826589
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		10	16	6.9	8.2	9.7	10
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
pH	1 pH Units	TM133		8.09 M	7.4 M	7.1 M	6.69 M	7.47 M	7.07 M
Arsenic	<0.6 mg/kg	TM181		11.2 M	23.4 M	8.54 M	8.04 M	8.83 M	7.63 M
Cadmium	<0.02 mg/kg	TM181		0.407 M	1.04 M	0.412 M	0.321 M	0.35 M	0.255 M
Chromium	<0.9 mg/kg	TM181		11 M	24 M	11.5 M	11.4 M	10.4 M	9.38 M
Copper	<1.4 mg/kg	TM181		28.7 M	54 M	14 M	<14 M	10.7 M	15 M
Lead	<0.7 mg/kg	TM181		172 M	278 M	15.4 M	15.1 M	12.5 M	18 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		17 M	23 M	21.3 M	23.4 M	19.7 M	18.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<10 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.8 #	18 #	13.3 #	12.1 #	10.8 #	11.3 #
Zinc	<1.9 mg/kg	TM181		545 M	261 M	60.3 M	55.2 M	49.6 M	59.2 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3105	IP 3105	IP 3163	IP 3163	IP 3163	IP 3163
			Depth (m)	1.50	2.70	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826597	9826601	9826614	9826618	9826627	9826632
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		8.2	8.1	12	9.4	10	9.4
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
pH	1 pH Units	TM133		7.37 M	5.89 M	7.83 M	6.38 M	6.56 M	6.09 M
Arsenic	<0.6 mg/kg	TM181		7.66 M	8.89 M	27.1 M	8.16 M	9.22 M	7.94 M
Cadmium	<0.02 mg/kg	TM181		0.361 M	0.335 M	1.18 M	0.343 M	0.447 M	0.197 M
Chromium	<0.9 mg/kg	TM181		10.5 M	12.1 M	15.7 M	10.7 M	10.6 M	11.2 M
Copper	<1.4 mg/kg	TM181		11.1 M	12.7 M	55 M	12.9 M	16.2 M	12.9 M
Lead	<0.7 mg/kg	TM181		12.5 M	12.8 M	133 M	16.6 M	33.8 M	12.4 M
Mercury	<0.14 mg/kg	TM181		0.366 M	<0.14 M	<0.14 M	0.366 M	0.412 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		19.8 M	23.6 M	23.5 M	19.8 M	20.9 M	23.8 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.4 #	12.6 #	21.7 #	12.3 #	11.9 #	13 #
Zinc	<1.9 mg/kg	TM181		53.2 M	58.7 M	383 M	62.1 M	99.1 M	56.8 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3163	IP 3164	IP 3164	IP 3164	IP 3164	IP 3164
			Depth (m)	4.50	0.50	1.50	2.50	3.50	4.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826636	9826641	9826646	9826650	9826654	9826659
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	17	20	11	9.1	9.2
Actinolite*	-	SUB (ASB)			Not Detected #				
Amosite*	-	SUB (ASB)			Not Detected #				
Chrysotile*	-	SUB (ASB)			Not Detected #				
Crocidolite*	-	SUB (ASB)			Not Detected #				
Tremolite*	-	SUB (ASB)			Not Detected #				
pH	1 pH Units	TM133		7.22 M	7.13 M	6.72 M	6.06 M	5.84 M	6.21 M
Arsenic	<0.6 mg/kg	TM181		9.87 M	48.3 M	24 M	13.2 M	8.06 M	8.3 M
Cadmium	<0.02 mg/kg	TM181		0.469 M	4.35 M	1.71 M	0.308 M	0.328 M	0.205 M
Chromium	<0.9 mg/kg	TM181		13 M	18.5 M	18 M	12.7 M	10.7 M	10.9 M
Copper	<1.4 mg/kg	TM181		13.7 M	99.7 M	37 M	14.4 M	12.7 M	10.2 M
Lead	<0.7 mg/kg	TM181		15.3 M	313 M	39.4 M	15.2 M	12.4 M	12.2 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22 M	45 M	21.8 M	20.5 M	21.2 M	24.1 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		13.4 #	97 #	30.9 #	14.3 #	12.3 #	12.5 #
Zinc	<1.9 mg/kg	TM181		63.3 M	751 M	226 M	62.1 M	58.3 M	59.4 M

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3164	TPE 910	TPE 910	TPE 910		
			Depth (m)	5.50	0.30	1.00	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014		
			Sample Time	.	.	.	.		
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014		
			SDG Ref	140818-45	140818-45	140818-45	140818-45		
			Lab Sample No.(s)	9826667	9826506	9826510	9826514		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	20	21	9.1		
Actinolite*	-	SUB (ASB)			Not Detected #	Not Detected #			
Amosite*	-	SUB (ASB)			Not Detected #	Not Detected #			
Chrysotile*	-	SUB (ASB)			Not Detected #	Not Detected #			
Crocidolite*	-	SUB (ASB)			Not Detected #	Not Detected #			
Tremolite*	-	SUB (ASB)			Not Detected #	Not Detected #			
pH	1 pH Units	TM133		6.92 M	6.12 M	5.64 M	6.14 M		
Arsenic	<0.6 mg/kg	TM181		8.01 M	58.8 M	18.9 M	6.04 M		
Cadmium	<0.02 mg/kg	TM181		0.4 M	1.79 M	0.643 M	0.524 M		
Chromium	<0.9 mg/kg	TM181		12.1 M	14.8 M	17.4 M	13.1 M		
Copper	<1.4 mg/kg	TM181		12.7 M	148 M	37 M	14.8 M		
Lead	<0.7 mg/kg	TM181		13.3 M	78.7 M	32.8 M	14.8 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		21.3 M	21.4 M	16.6 M	28.3 M		
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<10 #		
Vanadium	<0.2 mg/kg	TM181		15 #	21.1 #	23.9 #	15.4 #		
Zinc	<1.9 mg/kg	TM181		53.5 M	206 M	117 M	71.5 M		

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 508	IP 508	IP 508	IP 509	IP 511	IP 511
			Depth (m)	0.50	0.80	1.50	0.50	0.10	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	-	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9838237	9838243	9838223	9826397	9826112	9826342
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		99.4 §	123 §	106 §	86.3	105	96.1
Acenaphthene-d10 % recovery**	%	TM218		99.9 §	126 §	100 §	85	95.3	93.6
Phenanthrene-d10 % recovery**	%	TM218		98.8 §	125 §	97.4 §	83.1	89.3	91.1
Chrysene-d12 % recovery**	%	TM218		104 §	123 §	96.2 §	84.8	89	91.6
Perylene-d12 % recovery**	%	TM218		105 §	125 §	99.9 §	87.4	83.7	88.3
Naphthalene	<9 µg/kg	TM218		34.5 § M	12.3 § M	50.9 § M	48.6 @ M	89.8 @ M	13.7 @ M
Acenaphthylene	<12 µg/kg	TM218		20.1 § M	<12 § M	<12 § M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		38.2 § M	<8 § M	<8 § M	65.4 @ M	21.1 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		31.6 § M	<10 § M	<10 § M	83.7 @ M	20.7 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		386 § M	56.2 § M	69 § M	684 @ M	264 @ M	69.5 @ M
Anthracene	<16 µg/kg	TM218		75.9 § M	<16 § M	<16 § M	146 @ M	47.6 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		981 § M	56.5 § M	<17 § M	989 @ M	462 @ M	51 @ M
Pyrene	<15 µg/kg	TM218		744 § M	47.3 § M	<15 § M	799 @ M	388 @ M	47.9 @ M
Benz(a)anthracene	<14 µg/kg	TM218		642 § M	28.8 § M	<14 § M	606 @ M	310 @ M	37.6 @ M
Chrysene	<10 µg/kg	TM218		839 § M	49.6 § M	30 § M	666 @ M	354 @ M	68.3 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		994 § M	99.7 § M	34.8 § M	835 @ M	575 @ M	60.7 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		474 § M	34.5 § M	<14 § M	383 @ M	198 @ M	17.7 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		727 § M	45.2 § M	<15 § M	620 @ M	350 @ M	20.2 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		508 § M	52 § M	<18 § M	344 @ M	232 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		197 § M	<23 § M	<23 § M	116 @ M	82.9 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		659 § M	65.8 § M	<24 § M	386 @ M	274 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7350 §	548 §	185 §	6770	3670	387

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 512	IP 513	IP 513	IP 514	IP 514	IP 514
			Depth (m)	0.20	0.50	0.80	0.20	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826463	9838225	9838227	9826304	9826325	9826331
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	97.6 §	97.5 §	96.5	95.6	96.9
Acenaphthene-d10 % recovery**	%	TM218		109	96.8 §	104 §	92.2	95.2	95.8
Phenanthrene-d10 % recovery**	%	TM218		110	94.8 §	106 §	89.1	93.8	94.7
Chrysene-d12 % recovery**	%	TM218		113	99.4 §	104 §	95.9	95.1	95.5
Perylene-d12 % recovery**	%	TM218		123	106 §	107 §	96.2	95.7	93
Naphthalene	<9 µg/kg	TM218		70.6 @ M	30.8 § M	109 § M	63.9 @ M	<9 @ M	<9 @ #
Acenaphthylene	<12 µg/kg	TM218		21.8 @ M	14 § M	147 § M	49.2 @ M	<12 @ M	<12 @ #
Acenaphthene	<8 µg/kg	TM218		46.5 @ M	12.5 § M	293 § M	251 @ M	<8 @ M	<8 @ #
Fluorene	<10 µg/kg	TM218		73.8 @ M	16.6 § M	222 § M	191 @ M	<10 @ M	<10 @ #
Phenanthrene	<15 µg/kg	TM218		340 @ M	186 § M	241 § M	1320 @ M	<15 @ M	57.1 @ #
Anthracene	<16 µg/kg	TM218		71.2 @ M	28.4 § M	192 § M	279 @ M	<16 @ M	18.9 @ #
Fluoranthene	<17 µg/kg	TM218		453 @ M	383 § M	75.4 § M	3300 @ M	<17 @ M	194 @ #
Pyrene	<15 µg/kg	TM218		419 @ M	285 § M	270 § M	2580 @ M	<15 @ M	142 @ #
Benz(a)anthracene	<14 µg/kg	TM218		324 @ M	305 § M	33.1 § M	2390 @ M	20.3 @ M	136 @ #
Chrysene	<10 µg/kg	TM218		386 @ M	283 § M	66.5 § M	2820 @ M	20.9 @ M	172 @ #
Benzo(b)fluoranthene	<15 µg/kg	TM218		560 @ M	601 § M	38.7 § M	4720 @ M	<15 @ M	200 @ #
Benzo(k)fluoranthene	<14 µg/kg	TM218		218 @ M	141 § M	<14 § M	1950 @ M	<14 @ M	83.4 @ #
Benzo(a)pyrene	<15 µg/kg	TM218		396 @ M	313 § M	<15 § M	2730 @ M	<15 @ M	108 @ #
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		317 @ M	207 § M	<18 § M	1810 @ M	<18 @ M	73.8 @ #
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		107 @ M	79.2 § M	<23 § M	632 @ M	<23 @ M	29 @ #
Benzo(g,h,i)perylene	<24 µg/kg	TM218		372 @ M	233 § M	<24 § M	2080 @ M	<24 @ M	92.9 @ #
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		4170	3120 §	1690 §	27200	<118	1310

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 514	IP 538	IP 538	IP 538	IP 544	IP 544
			Depth (m)	1.50	0.20	0.50	1.50	0.20	1.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	-	-	-
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826336	9838231	9838233	9838236	9838230	9838226
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	107 §	104 §	102 §	76 §	99.4 §
Acenaphthene-d10 % recovery**	%	TM218		99.3	104 §	102 §	98 §	78 §	96 §
Phenanthrene-d10 % recovery**	%	TM218		98.1	103 §	102 §	94.3 §	78 §	92.5 §
Chrysene-d12 % recovery**	%	TM218		100	105 §	97.1 §	91.4 §	80 §	93.8 §
Perylene-d12 % recovery**	%	TM218		99	103 §	97.8 §	92.1 §	84 §	92.7 §
Naphthalene	<9 µg/kg	TM218		<9 @ #	28.9 § M	23.8 § M	16.6 § M	96.1 § M	24 § M
Acenaphthylene	<12 µg/kg	TM218		<12 @ #	<12 § M	<12 § M	<12 § M	20.1 § M	<12 § M
Acenaphthene	<8 µg/kg	TM218		<8 @ #	18.2 § M	<8 § M	<8 § M	57 § M	18 § M
Fluorene	<10 µg/kg	TM218		<10 @ #	23.2 § M	<10 § M	<10 § M	48.7 § M	34.9 § M
Phenanthrene	<15 µg/kg	TM218		47.4 @ #	176 § M	72.2 § M	52.9 § M	800 § M	121 § M
Anthracene	<16 µg/kg	TM218		<16 @ #	50.1 § M	<16 § M	<16 § M	105 § M	34.1 § M
Fluoranthene	<17 µg/kg	TM218		70.4 @ #	347 § M	95.5 § M	47.8 § M	1760 § M	32.5 § M
Pyrene	<15 µg/kg	TM218		49.2 @ #	298 § M	78.8 § M	37 § M	1290 § M	37.4 § M
Benz(a)anthracene	<14 µg/kg	TM218		33.6 @ #	189 § M	34.5 § M	35.3 § M	1050 § M	29.7 § M
Chrysene	<10 µg/kg	TM218		43.5 @ #	244 § M	44.3 § M	37.8 § M	1350 § M	40 § M
Benzo(b)fluoranthene	<15 µg/kg	TM218		48.7 @ #	286 § M	74.9 § M	62.9 § M	1950 § M	56.9 § M
Benzo(k)fluoranthene	<14 µg/kg	TM218		20.8 @ #	139 § M	29.2 § M	17.7 § M	610 § M	<14 § M
Benzo(a)pyrene	<15 µg/kg	TM218		25.6 @ #	163 § M	44.7 § M	23.9 § M	1110 § M	23 § M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		19.6 @ #	113 § M	32.7 § M	<18 § M	641 § M	<18 § M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ #	40.4 § M	<23 § M	<23 § M	249 § M	<23 § M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ #	143 § M	45.8 § M	<24 § M	707 § M	<24 § M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		359	2260 §	576 §	332 §	11800 §	452 §

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 546	IP 546	IP 571	IP 571	IP 571	IP 584
			Depth (m)	0.20	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826204	9826252	9826346	9826352	9826357	9826362
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	95.7	98.3	94.5	91.9	104
Acenaphthene-d10 % recovery**	%	TM218		108	94.5	98.2	94.6	89.7	102
Phenanthrene-d10 % recovery**	%	TM218		107	92.7	96.7	95	88.1	105
Chrysene-d12 % recovery**	%	TM218		106	93	107	98.7	89.3	106
Perylene-d12 % recovery**	%	TM218		112	89.4	107	97.6	93.2	102
Naphthalene	<9 µg/kg	TM218		41.8 @ M	<9 @ M	27.8 @ M	27.7 @ M	34.3 @ M	202 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	13.8 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		15.8 @ M	25 @ M	21.7 @ M	10.7 @ M	12.4 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		21.4 @ M	<10 @ M	43.4 @ M	55.4 @ M	44.3 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		262 @ M	45 @ M	105 @ M	120 @ M	113 @ M	32 @ M
Anthracene	<16 µg/kg	TM218		38.1 @ M	<16 @ M	89.9 @ M	28.5 @ M	24.1 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		515 @ M	<17 @ M	58.4 @ M	42.7 @ M	36.7 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		441 @ M	<15 @ M	297 @ M	62.5 @ M	68.8 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		308 @ M	20.3 @ M	31.8 @ M	32.5 @ M	20.1 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		345 @ M	28.2 @ M	61.6 @ M	63.8 @ M	53 @ M	11.5 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		459 @ M	47 @ M	78.7 @ M	84.9 @ M	62.9 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		187 @ M	<14 @ M	22.8 @ M	24.6 @ M	19.5 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		326 @ M	<15 @ M	28.1 @ M	28.1 @ M	31 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		215 @ M	<18 @ M	29.1 @ M	30.6 @ M	24 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		75.3 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		240 @ M	<24 @ M	45.5 @ M	58.9 @ M	44.7 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3490	166	954	671	589	245

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 585	IP 585	IP 615	IP 615	IP 615	IP 633
			Depth (m)	1.00	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826368	9826373	9826379	9826385	9826392	9826402
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		87	95.8	98.9	96.4	99.2	113
Acenaphthene-d10 % recovery**	%	TM218		84	93.2	98.3	94.2	96.4	111
Phenanthrene-d10 % recovery**	%	TM218		86.9	93.5	99	90.6	93.1	105
Chrysene-d12 % recovery**	%	TM218		84.2	86.9	93.8	91.5	91.6	104
Perylene-d12 % recovery**	%	TM218		80.6	89.9	91.2	93.3	91.6	111
Naphthalene	<9 µg/kg	TM218		107 @ M	1190 @ M	27.4 @ M	39.7 @ M	77 @ M	53.3 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	8.88 @ M	29.8 @ M	<8 @ M	<8 @ M	64.4 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	18.2 @ M	<10 @ M	<10 @ M	74.4 @ M
Phenanthrene	<15 µg/kg	TM218		48.5 @ M	126 @ M	454 @ M	59.1 @ M	103 @ M	685 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	23.9 @ M	<16 @ M	<16 @ M	135 @ M
Fluoranthene	<17 µg/kg	TM218		30.1 @ M	28.9 @ M	496 @ M	<17 @ M	<17 @ M	1070 @ M
Pyrene	<15 µg/kg	TM218		24.4 @ M	35.2 @ M	389 @ M	<15 @ M	<15 @ M	780 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	16.4 @ M	135 @ M	<14 @ M	27.1 @ M	627 @ M
Chrysene	<10 µg/kg	TM218		13.8 @ M	60.3 @ M	310 @ M	33.3 @ M	53.8 @ M	847 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		31.9 @ M	66.9 @ M	326 @ M	44.2 @ M	74.1 @ M	831 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	135 @ M	<14 @ M	<14 @ M	340 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	149 @ M	<15 @ M	<15 @ M	627 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	138 @ M	<18 @ M	<18 @ M	436 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	47.7 @ M	<23 @ M	<23 @ M	178 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	182 @ M	<24 @ M	<24 @ M	502 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		256	1530	2860	176	335	7250

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 633	IP 633	IP 634	IP 634	IP 634	IP 661
			Depth (m)	1.50	2.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826408	9826413	9826418	9826425	9826430	9826435
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		104	101	105	100	97.3	90.8
Acenaphthene-d10 % recovery**	%	TM218		102	96.8	105	101	97.6	90.7
Phenanthrene-d10 % recovery**	%	TM218		97.7	92	105	97.6	96.9	89.7
Chrysene-d12 % recovery**	%	TM218		98.4	93.2	100	97.6	91.3	85
Perylene-d12 % recovery**	%	TM218		94.6	89.5	108	99.4	95.2	87.6
Naphthalene	<9 µg/kg	TM218		352 @ M	251 @ M	48.6 @ M	120 @ M	64.5 @ #	22.3 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ #	<12 @ M
Acenaphthene	<8 µg/kg	TM218		13.3 @ M	15.5 @ M	11.5 @ M	<8 @ M	<8 @ #	21 @ M
Fluorene	<10 µg/kg	TM218		54.6 @ M	40.7 @ M	<10 @ M	25.9 @ M	<10 @ #	15.2 @ M
Phenanthrene	<15 µg/kg	TM218		65.9 @ M	140 @ M	165 @ M	60.2 @ M	31.6 @ #	387 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	19.2 @ M	<16 @ M	<16 @ M	<16 @ #	<16 @ M
Fluoranthene	<17 µg/kg	TM218		32.5 @ M	341 @ M	285 @ M	<17 @ M	<17 @ #	461 @ M
Pyrene	<15 µg/kg	TM218		34.2 @ M	285 @ M	213 @ M	<15 @ M	<15 @ #	353 @ M
Benz(a)anthracene	<14 µg/kg	TM218		23.6 @ M	321 @ M	142 @ M	20.8 @ M	17.8 @ #	140 @ M
Chrysene	<10 µg/kg	TM218		29.7 @ M	325 @ M	216 @ M	21.7 @ M	<10 @ #	249 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		51 @ M	611 @ M	396 @ M	22.1 @ M	<15 @ #	304 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	229 @ M	157 @ M	<14 @ M	<14 @ #	128 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	338 @ M	165 @ M	<15 @ M	<15 @ #	159 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	201 @ M	162 @ M	<18 @ M	<18 @ #	120 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	83.1 @ M	53.5 @ M	<23 @ M	<23 @ #	36.6 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	243 @ M	209 @ M	<24 @ M	<24 @ #	151 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		656	3440	2220	270	<118	2550

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 661	IP 690	IP 690	IP 690	IP 690	IP 713
			Depth (m)	2.00	0.50	1.30	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826441	9826449	9826454	9826469	9826473	9826478
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.3	98.7	113	99	96.3	95.5
Acenaphthene-d10 % recovery**	%	TM218		98.1	98.6	109	99	97.5	94.9
Phenanthrene-d10 % recovery**	%	TM218		97.7	97	106	98.4	96.9	95.2
Chrysene-d12 % recovery**	%	TM218		93	97.7	99.1	92.2	95.4	89.9
Perylene-d12 % recovery**	%	TM218		92.5	100	107	99.6	108	95.4
Naphthalene	<9 µg/kg	TM218		35 @ M	60.5 @ M	23.4 @ M	26.2 @ M	18.5 @ #	29.4 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ #	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ #	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ #	<10 @ M
Phenanthrene	<15 µg/kg	TM218		35.3 @ M	129 @ M	<15 @ M	24.2 @ M	37.4 @ #	87.4 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ #	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	170 @ M	<17 @ M	<17 @ M	<17 @ #	125 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	130 @ M	<15 @ M	<15 @ M	<15 @ #	101 @ M
Benz(a)anthracene	<14 µg/kg	TM218		22.8 @ M	95 @ M	40.8 @ M	20.7 @ M	18.8 @ #	56.3 @ M
Chrysene	<10 µg/kg	TM218		15.1 @ M	183 @ M	<10 @ M	11.8 @ M	12.4 @ #	104 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	315 @ M	<15 @ M	<15 @ M	<15 @ #	149 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	100 @ M	<14 @ M	<14 @ M	<14 @ #	68.2 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	133 @ M	<15 @ M	<15 @ M	<15 @ #	68.7 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	114 @ M	<18 @ M	<18 @ M	<18 @ #	60.8 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	41.1 @ M	<23 @ M	<23 @ M	<23 @ #	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	137 @ M	<24 @ M	<24 @ M	<24 @ #	75.9 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	1610	<118	<118	<118	926

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 713	IP 713	IP 719	IP 719	IP 719	IP 726
			Depth (m)	0.70	1.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826482	9826486	9826208	9826212	9826216	9826318
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	100	94.7	102	98.1	88.9
Acenaphthene-d10 % recovery**	%	TM218		92.8	100	91.3	104	101	86.6
Phenanthrene-d10 % recovery**	%	TM218		84.8	101	88.9	105	95.5	84.7
Chrysene-d12 % recovery**	%	TM218		77	95	91.3	108	99.9	83.6
Perylene-d12 % recovery**	%	TM218		85.5	103	95.1	107	95.1	83.7
Naphthalene	<9 µg/kg	TM218		52.7 @ M	<9 @ #	<9 @ M	<9 @ M	12.8 @ M	17.7 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ #	<12 @ M	21.9 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ #	<8 @ M	97.6 @ M	16.9 @ M	10.1 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ #	<10 @ M	<10 @ M	63.1 @ M	13.8 @ M
Phenanthrene	<15 µg/kg	TM218		63.9 @ M	45.4 @ #	18.4 @ M	42 @ M	126 @ M	354 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ #	<16 @ M	<16 @ M	<16 @ M	34.2 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ #	<17 @ M	<17 @ M	<17 @ M	391 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ #	<15 @ M	<15 @ M	<15 @ M	289 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	26.5 @ #	17.1 @ M	27.5 @ M	18.2 @ M	134 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	24.6 @ #	13.8 @ M	16.6 @ M	16.4 @ M	262 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	30.2 @ #	19.6 @ M	18.2 @ M	<15 @ M	244 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ #	<14 @ M	<14 @ M	<14 @ M	80 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ #	<15 @ M	<15 @ M	<15 @ M	125 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ #	<18 @ M	<18 @ M	<18 @ M	71.7 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ #	<23 @ M	<23 @ M	<23 @ M	29.5 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ #	<24 @ M	<24 @ M	<24 @ M	82.9 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	127	<118	224	253	2140

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 729	IP 729	IP 729	IP 729	IP 729	IP 729
			Depth (m)	0.50	1.00	1.50	2.00	3.00	4.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826221	9826225	9826230	9826236	9826240	9826244
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		88.9	88.8	97.6	94.1	122	100
Acenaphthene-d10 % recovery**	%	TM218		86.4	86.6	98.5	91.7	120	100
Phenanthrene-d10 % recovery**	%	TM218		83.7	78	97.6	92.3	118	98.6
Chrysene-d12 % recovery**	%	TM218		87.3	68.9	97	89.3	115	96.2
Perylene-d12 % recovery**	%	TM218		89.5	71.8	98.2	91.5	115	94.7
Naphthalene	<9 µg/kg	TM218		<9 @ M	213 @ M	<9 @ M	<9 @ M	12.5 @ M	10.4 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	116 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	83.1 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	57.3 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		119 @ M	622 @ M	<15 @ M	24.2 @ M	198 @ M	122 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	208 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		27.8 @ M	1320 @ M	<17 @ M	<17 @ M	18.4 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	940 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		35.3 @ M	543 @ M	<14 @ M	25.4 @ M	26.3 @ M	25.2 @ M
Chrysene	<10 µg/kg	TM218		69 @ M	567 @ M	<10 @ M	<10 @ M	110 @ M	59.8 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		86.8 @ M	1050 @ M	<15 @ M	<15 @ M	96.1 @ M	39.2 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	404 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	869 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	778 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	217 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	1050 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		338	9030	<118	<118	462	257

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 730	IP 730	IP 731	IP 731	IP 731	IP 731
			Depth (m)	0.50	1.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826195	9826200	9826248	9826257	9826261	9826266
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		113	101	88.4	106	96.4	100
Acenaphthene-d10 % recovery**	%	TM218		113	101	86.1	105	95.6	101
Phenanthrene-d10 % recovery**	%	TM218		111	98.2	83	106	94.6	102
Chrysene-d12 % recovery**	%	TM218		98.1	100	83.7	102	91.8	92.5
Perylene-d12 % recovery**	%	TM218		87.3	99.7	79.8	107	94.8	88
Naphthalene	<9 µg/kg	TM218		90 @ M	15.1 @ M	80.8 @ M	22 @ M	<9 @ M	31 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	21.8 @ M	<8 @ M	13.2 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	34.3 @ M	<10 @ M	32.6 @ M	<10 @ M	74.9 @ M
Phenanthrene	<15 µg/kg	TM218		213 @ M	43.9 @ M	163 @ M	93.1 @ M	<15 @ M	148 @ M
Anthracene	<16 µg/kg	TM218		41.7 @ M	<16 @ M	22.4 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		334 @ M	<17 @ M	110 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		258 @ M	<15 @ M	74.1 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		140 @ M	<14 @ M	68.1 @ M	33.5 @ M	<14 @ M	20.3 @ M
Chrysene	<10 µg/kg	TM218		215 @ M	<10 @ M	98 @ M	32 @ M	<10 @ M	19.7 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		173 @ M	<15 @ M	130 @ M	33.5 @ M	<15 @ M	28.2 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		84.2 @ M	<14 @ M	43.9 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		53.6 @ M	<15 @ M	48.1 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		42.8 @ M	<18 @ M	32.4 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		55.9 @ M	<24 @ M	37.5 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1700	<118	908	269	<118	335

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 732	IP 732	IP 732	IP 732	IP 733	IP 733
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826179	9826183	9826187	9826191	9826300	9826308
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		87.7	103	87.6	103	86.3	96.8
Acenaphthene-d10 % recovery**	%	TM218		85.9	105	89.3	102	84.5	99.4
Phenanthrene-d10 % recovery**	%	TM218		79.2	106	87.8	104	82.2	101
Chrysene-d12 % recovery**	%	TM218		70.3	99.9	83.1	104	81.4	101
Perylene-d12 % recovery**	%	TM218		63.4	92	82.8	95.7	82.8	112
Naphthalene	<9 µg/kg	TM218		242 @ M	36.2 @ M	51.9 @ M	134 @ M	<9 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		49.8 @ M	22.1 @ M	14.5 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	12.5 @ M	86.9 @ M	17.6 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		21 @ M	21.5 @ M	161 @ M	12.5 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		265 @ M	172 @ M	285 @ M	294 @ M	28.4 @ M	110 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	23.3 @ M	36.1 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		147 @ M	155 @ M	<17 @ M	87.6 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		117 @ M	143 @ M	<15 @ M	67.8 @ M	<15 @ M	18.1 @ M
Benz(a)anthracene	<14 µg/kg	TM218		75.1 @ M	59 @ M	<14 @ M	34.6 @ M	<14 @ M	16.5 @ M
Chrysene	<10 µg/kg	TM218		206 @ M	98.7 @ M	<10 @ M	175 @ M	<10 @ M	43 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		127 @ M	71.5 @ M	18.4 @ M	131 @ M	<15 @ M	73.5 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		33.1 @ M	26.7 @ M	<14 @ M	15.9 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		59.8 @ M	33 @ M	<15 @ M	18.2 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		28.3 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		46.8 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1420	874	654	988	<118	261

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 733	IP 742	IP 742	IP 742	IP 742	IP 747
			Depth (m)	2.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826312	9826149	9826153	9826157	9826163	9826271
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		86.9	91.8	94	90.9	98	90.7
Acenaphthene-d10 % recovery**	%	TM218		84.1	90	89.2	88	98.2	88.6
Phenanthrene-d10 % recovery**	%	TM218		82.2	86.6	98.1	84.5	98.4	84.5
Chrysene-d12 % recovery**	%	TM218		79.5	88.4	90.8	89.3	97.7	84.3
Perylene-d12 % recovery**	%	TM218		79.3	90.6	94.9	86.7	104	84.6
Naphthalene	<9 µg/kg	TM218		137 @ M	19 @ M	186 @ M	<9 @ M	10.1 @ M	28.3 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		20.8 @ M	24.3 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		17.7 @ M	24 @ M	<10 @ M	<10 @ M	20.8 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		33.1 @ M	269 @ M	80.9 @ M	69.7 @ M	85.8 @ M	47.9 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	31.7 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	359 @ M	23.3 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	304 @ M	20.5 @ M	<15 @ M	17.1 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	162 @ M	<14 @ M	16.6 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	226 @ M	40.9 @ M	82 @ M	20.4 @ M	34.5 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		29.2 @ M	259 @ M	42 @ M	36.1 @ M	19.2 @ M	58.8 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	112 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	169 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	87.3 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	33.2 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	112 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		238	2190	394	204	173	170

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 747	IP 747	IP 781	IP 781	IP 781	IP 781
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826275	9826280	9826132	9826136	9826141	9826145
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		88.3	96.2	90.6	89.1	89.4	92.6
Acenaphthene-d10 % recovery**	%	TM218		86.4	93.1	88.4	86.5	87	89.2
Phenanthrene-d10 % recovery**	%	TM218		84.1	91.9	85	94.4	88.9	87.5
Chrysene-d12 % recovery**	%	TM218		82.4	91.6	85.1	92.9	89.9	83.4
Perylene-d12 % recovery**	%	TM218		82.2	87.2	87.1	91	86.3	88
Naphthalene	<9 µg/kg	TM218		<9 @ M	<9 @ M	19.7 @ M	1370 @ M	843 @ M	850 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	51.8 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	417 @ M	9.52 @ M	10.6 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	351 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	66.7 @ M	433 @ M	96.4 @ M	85.9 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	156 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	49.1 @ M	240 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	39.6 @ M	308 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	75.6 @ M	<14 @ M	17.6 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	<10 @ M	18 @ M	106 @ M	33.7 @ M	34 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	<15 @ M	35.1 @ M	89.2 @ M	22.3 @ M	22 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	42.3 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	22.5 @ M	65.1 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	45.8 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	50.6 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	251	3810	1000	1020

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 782	IP 782	IP 782	IP 782	IP 783	IP 783
			Depth (m)	0.50	1.50	2.50	3.70	0.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826760	9826117	9826121	9826127	9826738	9826743
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		103	96	95.4	102	97	94.5
Acenaphthene-d10 % recovery**	%	TM218		98.5	98.4	98.6	103	96.5	97.2
Phenanthrene-d10 % recovery**	%	TM218		94.1	95.4	95.5	102	96.1	95.9
Chrysene-d12 % recovery**	%	TM218		97.7	96.3	95.6	100	97.5	100
Perylene-d12 % recovery**	%	TM218		92.9	95.1	92.3	103	105	97.4
Naphthalene	<9 µg/kg	TM218		32 @ M	404 @ M	809 @ M	62.5 @ M	51.1 @ M	1190 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		40 @ M	40.3 @ M	30.1 @ M	<8 @ M	<8 @ M	72.3 @ M
Fluorene	<10 µg/kg	TM218		26.8 @ M	37.6 @ M	38.7 @ M	<10 @ M	<10 @ M	81.5 @ M
Phenanthrene	<15 µg/kg	TM218		920 @ M	79.1 @ M	101 @ M	68.5 @ M	138 @ M	333 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	43.1 @ M
Fluoranthene	<17 µg/kg	TM218		1360 @ M	43.3 @ M	98.2 @ M	20.1 @ M	261 @ M	583 @ M
Pyrene	<15 µg/kg	TM218		1100 @ M	29.9 @ M	67.2 @ M	21.2 @ M	238 @ M	434 @ M
Benz(a)anthracene	<14 µg/kg	TM218		348 @ M	29.7 @ M	39.8 @ M	18.6 @ M	106 @ M	372 @ M
Chrysene	<10 µg/kg	TM218		773 @ M	64 @ M	73.4 @ M	42.7 @ M	225 @ M	449 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1010 @ M	54.5 @ M	62.7 @ M	28.7 @ M	275 @ M	470 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		338 @ M	<14 @ M	<14 @ M	<14 @ M	122 @ M	208 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		567 @ M	<15 @ M	<15 @ M	<15 @ M	159 @ M	263 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		322 @ M	<18 @ M	<18 @ M	<18 @ M	107 @ M	157 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		101 @ M	<23 @ M	<23 @ M	<23 @ M	30.3 @ M	69.2 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		364 @ M	<24 @ M	<24 @ M	<24 @ M	142 @ M	186 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7290	782	1320	262	1850	4910

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 783	IP 783	IP 783	IP 784	IP 784	IP 784
			Depth (m)	2.50	3.50	4.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826748	9826752	9826756	9826717	9826721	9826726
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		95.1	96.3	96.2	96.7	97.7	95.7
Acenaphthene-d10 % recovery**	%	TM218		95.8	97.3	94.7	98.2	97	95.7
Phenanthrene-d10 % recovery**	%	TM218		94.8	95.6	91.2	103	96.7	92.1
Chrysene-d12 % recovery**	%	TM218		98.1	90.2	93.6	103	91.9	88.6
Perylene-d12 % recovery**	%	TM218		96.6	94.1	91.4	113	98.3	88.1
Naphthalene	<9 µg/kg	TM218		345 @ M	789 @ M	260 @ M	22.1 @ M	24 @ M	647 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		11.8 @ M	22.1 @ M	<8 @ M	<8 @ M	<8 @ M	78.1 @ M
Fluorene	<10 µg/kg	TM218		21.3 @ M	28.7 @ M	13.7 @ M	<10 @ M	<10 @ M	238 @ M
Phenanthrene	<15 µg/kg	TM218		89.2 @ M	70.8 @ M	53.6 @ M	20.5 @ M	24.8 @ M	98.9 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		93.9 @ M	24.9 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		77.6 @ M	25 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		50.5 @ M	19.5 @ M	22.8 @ M	<14 @ M	18 @ M	22.4 @ M
Chrysene	<10 µg/kg	TM218		95.2 @ M	23.4 @ M	27.6 @ M	<10 @ M	<10 @ M	31.5 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		96.4 @ M	31 @ M	36.7 @ M	<15 @ M	<15 @ M	29.5 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		27.3 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		41.9 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		33.5 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		51.9 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1040	1030	414	<118	<118	1150

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 784	IP 784	IP 785	IP 785	IP 785	IP 785
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826730	9826734	9826691	9826696	9826701	9826708
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97	99.8	104	88.1	100	93.9
Acenaphthene-d10 % recovery**	%	TM218		97.1	94.9	104	86.2	99.8	93.4
Phenanthrene-d10 % recovery**	%	TM218		97	103	103	83.2	99.5	93.6
Chrysene-d12 % recovery**	%	TM218		90.8	89.4	101	80	95.9	88
Perylene-d12 % recovery**	%	TM218		94.8	105	106	78.8	102	91.3
Naphthalene	<9 µg/kg	TM218		63.7 @ M	420 @ M	<9 @ M	572 @ M	34 @ M	155 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	23.6 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	10.4 @ M	<8 @ M	29.9 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		15.1 @ M	27.4 @ M	<10 @ M	40.6 @ M	<10 @ M	19.7 @ M
Phenanthrene	<15 µg/kg	TM218		51 @ M	60.9 @ M	<15 @ M	36.2 @ M	30.9 @ M	40.8 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		18.2 @ M	<14 @ M	<14 @ M	18.9 @ M	24.1 @ M	17.9 @ M
Chrysene	<10 µg/kg	TM218		14.8 @ M	<10 @ M	<10 @ M	<10 @ M	15.2 @ M	15.5 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		27.6 @ M	<15 @ M	<15 @ M	<15 @ M	24.5 @ M	17 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		190	518	<118	721	129	266

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 785	IP 786	IP 786	IP 786	IP 786	IP 788
			Depth (m)	4.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826713	9826671	9826676	9826682	9826686	9826167
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	99	86.5	124	95.2	96.5
Acenaphthene-d10 % recovery**	%	TM218		101	98	84.7	126	94.7	95.5
Phenanthrene-d10 % recovery**	%	TM218		99.3	97	82.7	125	95.1	94.6
Chrysene-d12 % recovery**	%	TM218		93.6	96	79.7	123	92.2	101
Perylene-d12 % recovery**	%	TM218		97.4	101	77.3	124	94.1	104
Naphthalene	<9 µg/kg	TM218		429 @ M	<9 @ M	201 @ M	<9 @ M	11.7 @ M	119 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	45.7 @ M
Acenaphthene	<8 µg/kg	TM218		18.5 @ M	<8 @ M	11.5 @ M	<8 @ M	<8 @ M	102 @ M
Fluorene	<10 µg/kg	TM218		35 @ M	<10 @ M	25.9 @ M	<10 @ M	<10 @ M	74.8 @ M
Phenanthrene	<15 µg/kg	TM218		195 @ M	<15 @ M	68.1 @ M	40 @ M	42.1 @ M	2200 @ M
Anthracene	<16 µg/kg	TM218		27.5 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	199 @ M
Fluoranthene	<17 µg/kg	TM218		201 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M	4600 @ M
Pyrene	<15 µg/kg	TM218		152 @ M	18.9 @ M	<15 @ M	<15 @ M	<15 @ M	3530 @ M
Benz(a)anthracene	<14 µg/kg	TM218		73.5 @ M	18.6 @ M	<14 @ M	<14 @ M	<14 @ M	2050 @ M
Chrysene	<10 µg/kg	TM218		76.8 @ M	13.9 @ M	46.2 @ M	21.5 @ M	23.3 @ M	2520 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		66.8 @ M	34.4 @ M	43.7 @ M	34.2 @ M	23.2 @ M	3170 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		33.1 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	1250 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		33.6 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	2160 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	1370 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	452 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		31.5 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	1680 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1370	<118	397	<118	<118	25500

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 788	IP 788	IP 790	IP 790	IP 790	IP 1306
			Depth (m)	1.50	2.50	0.20	0.80	1.80	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826171	9826175	9826285	9826291	9826296	9826558
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	86.6	102	101	103	91.2
Acenaphthene-d10 % recovery**	%	TM218		99	84.8	103	101	104	91.6
Phenanthrene-d10 % recovery**	%	TM218		102	82.1	104	99.3	106	92.4
Chrysene-d12 % recovery**	%	TM218		93.2	79	108	101	109	96.1
Perylene-d12 % recovery**	%	TM218		83.2	74.4	112	97.6	113	97.5
Naphthalene	<9 µg/kg	TM218		<9 M	25.3 @ M	20.5 @ M	31.3 @ M	18.5 @ M	<9 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	26.2 @ M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 @ M	37.4 @ M	<8 @ M	83.9 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 M	<10 @ M	95.9 @ M	<10 @ M	115 @ M	40 @ M
Phenanthrene	<15 µg/kg	TM218		63.5 M	102 @ M	232 @ M	183 @ M	239 @ M	291 @ M
Anthracene	<16 µg/kg	TM218		<16 M	<16 @ M	30.8 @ M	21.9 @ M	25.1 @ M	51.9 @ M
Fluoranthene	<17 µg/kg	TM218		95.8 M	32.1 @ M	<17 @ M	183 @ M	36.4 @ M	418 @ M
Pyrene	<15 µg/kg	TM218		74 M	<15 @ M	23.2 @ M	148 @ M	35.4 @ M	728 @ M
Benz(a)anthracene	<14 µg/kg	TM218		49.3 M	16.3 @ M	30.2 @ M	83.5 @ M	35.2 @ M	227 @ M
Chrysene	<10 µg/kg	TM218		69.8 M	109 @ M	14.7 @ M	151 @ M	18.4 @ M	305 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		52.5 M	46.2 @ M	28 @ M	149 @ M	33.7 @ M	387 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		26.2 M	<14 @ M	<14 @ M	51.6 @ M	<14 @ M	164 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		37 M	<15 @ M	<15 @ M	65 @ M	<15 @ M	386 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		25 M	<18 @ M	<18 @ M	45.1 @ M	<18 @ M	224 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	79.3 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		35.4 M	<24 @ M	<24 @ M	56.5 @ M	<24 @ M	354 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		529	331	513	1170	640	3680

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 1306	IP 1306	IP 1354	IP 1354	IP 1760	IP 1760
			Depth (m)	0.50	2.50	0.50	1.30	0.20	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826563	9826572	9826605	9826610	9826523	9826527
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		92.1	98.4	97.6	104	104	92.2
Acenaphthene-d10 % recovery**	%	TM218		93.7	102	95.8	106	100	90.8
Phenanthrene-d10 % recovery**	%	TM218		90.8	104	92.4	109	98.2	93.7
Chrysene-d12 % recovery**	%	TM218		93.5	106	103	108	103	84.1
Perylene-d12 % recovery**	%	TM218		96	119	110	115	97.6	86.5
Naphthalene	<9 µg/kg	TM218		67.1 @ M	79.4 @ M	67.8 @ M	516 @ M	106 @ M	47.7 @ M
Acenaphthylene	<12 µg/kg	TM218		58.3 @ M	50.3 @ M	35.4 @ M	204 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		225 @ M	543 @ M	38.2 @ M	1220 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		274 @ M	310 @ M	73.7 @ M	1540 @ M	16 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		290 @ M	555 @ M	299 @ M	3060 @ M	230 @ M	72.4 @ M
Anthracene	<16 µg/kg	TM218		310 @ M	392 @ M	83.4 @ M	3140 @ M	26.1 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		177 @ M	546 @ M	340 @ M	725 @ M	164 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		160 @ M	641 @ M	417 @ M	1380 @ M	133 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		21.1 @ M	185 @ M	270 @ M	178 @ M	114 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		31.1 @ M	212 @ M	407 @ M	264 @ M	143 @ M	26.9 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	265 @ M	527 @ M	464 @ M	197 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	81.6 @ M	227 @ M	197 @ M	53.7 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	213 @ M	518 @ M	369 @ M	89.2 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	111 @ M	353 @ M	319 @ M	60.2 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	32.4 @ M	120 @ M	<115 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	176 @ M	530 @ M	678 @ M	79.9 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1610	4390	4310	14200	1410	147

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 1938	IP 1938	IP 1938	IP 2501	IP 2501	IP 2501
			Depth (m)	0.30	1.00	1.60	0.20	0.40	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826531	9826535	9826542	9826494	9826498	9826502
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.9	96.2	99.9	101	108	98.5
Acenaphthene-d10 % recovery**	%	TM218		96.4	97	97.2	102	104	101
Phenanthrene-d10 % recovery**	%	TM218		103	91.3	93.8	102	102	104
Chrysene-d12 % recovery**	%	TM218		104	104	99.7	103	89.3	109
Perylene-d12 % recovery**	%	TM218		116	99.3	104	109	100	117
Naphthalene	<9 µg/kg	TM218		70.8 @ M	49.6 @ M	380 @ M	470 @ M	1710 @ M	1090 @ M
Acenaphthylene	<12 µg/kg	TM218		37.9 @ M	<12 @ M	35.8 @ M	<12 @ M	<12 @ M	41.3 @ M
Acenaphthene	<8 µg/kg	TM218		148 @ M	10.2 @ M	88.2 @ M	70.1 @ M	20.8 @ M	312 @ M
Fluorene	<10 µg/kg	TM218		94.9 @ M	12.9 @ M	315 @ M	88.1 @ M	146 @ M	669 @ M
Phenanthrene	<15 µg/kg	TM218		1080 @ M	173 @ M	403 @ M	487 @ M	852 @ M	615 @ M
Anthracene	<16 µg/kg	TM218		181 @ M	31.7 @ M	128 @ M	47.7 @ M	71 @ M	119 @ M
Fluoranthene	<17 µg/kg	TM218		1990 @ M	160 @ M	130 @ M	709 @ M	328 @ M	33.3 @ M
Pyrene	<15 µg/kg	TM218		1630 @ M	150 @ M	136 @ M	558 @ M	349 @ M	48 @ M
Benz(a)anthracene	<14 µg/kg	TM218		1090 @ M	69.2 @ M	24.1 @ M	351 @ M	137 @ M	22.1 @ M
Chrysene	<10 µg/kg	TM218		1360 @ M	154 @ M	46.7 @ M	384 @ M	218 @ M	76.3 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1590 @ M	121 @ M	61.3 @ M	626 @ M	384 @ M	<15 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		682 @ M	36.4 @ M	21.6 @ M	246 @ M	170 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		1540 @ M	86.5 @ M	50.4 @ M	396 @ M	260 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		856 @ M	59.6 @ M	25.8 @ M	252 @ M	198 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		280 @ M	<23 @ M	<23 @ M	77.6 @ M	68.7 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1070 @ M	83.1 @ M	31.6 @ M	312 @ M	226 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		13700	1200	1880	5070	5140	3030

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3039	IP 3039	IP 3095	IP 3095	IP 3095	IP 3105
			Depth (m)	0.50	1.40	0.50	1.50	2.50	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826548	9826553	9826576	9826580	9826584	9826589
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		95.1	108	89.4	98.2	99.3	95.1
Acenaphthene-d10 % recovery**	%	TM218		93.6	114	87.8	99.9	101	94.2
Phenanthrene-d10 % recovery**	%	TM218		90.7	108	85.7	102	102	91.3
Chrysene-d12 % recovery**	%	TM218		96.9	116	87.4	105	105	94.4
Perylene-d12 % recovery**	%	TM218		102	112	88.1	117	120	98
Naphthalene	<9 µg/kg	TM218		30.2 @ M	85.8 @ M	<9 @ M	17.4 @ M	<9 @ M	79.4 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	29.9 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		9.1 @ M	49 @ M	<8 @ M	36.1 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	87.9 @ M	23.7 @ M	59.6 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		83.1 @ M	355 @ M	91.2 @ M	216 @ M	58 @ M	77 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	86.5 @ M	<16 @ M	68.7 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		136 @ M	539 @ M	<17 @ M	25.9 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		127 @ M	541 @ M	<15 @ M	38.8 @ M	<15 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		101 @ M	311 @ M	<14 @ M	<14 @ M	<14 @ M	17.4 @ M
Chrysene	<10 µg/kg	TM218		140 @ M	375 @ M	18.6 @ M	32.9 @ M	25.3 @ M	23.2 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		201 @ M	520 @ M	<15 @ M	36.3 @ M	31.1 @ M	30.4 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		77.2 @ M	210 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		176 @ M	462 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		145 @ M	436 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		44.7 @ M	110 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		232 @ M	759 @ M	<24 @ M	27.8 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1500	4960	133	560	<118	227

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3105	IP 3105	IP 3163	IP 3163	IP 3163	IP 3163
			Depth (m)	1.50	2.70	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826597	9826601	9826614	9826618	9826627	9826632
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		99.2	96.1	101	99.3	95.4	99.2
Acenaphthene-d10 % recovery**	%	TM218		99.9	96.1	102	105	108	107
Phenanthrene-d10 % recovery**	%	TM218		99.5	95.7	102	107	100	99.3
Chrysene-d12 % recovery**	%	TM218		97	89.3	107	106	99.3	89.8
Perylene-d12 % recovery**	%	TM218		101	88.6	111	115	109	107
Naphthalene	<9 µg/kg	TM218		81.7 @ M	19.8 @ M	100 @ M	685 @ M	590 @ M	2230 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	61.1 @ M	133 @ M	1520 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		13.9 @ M	<8 @ M	367 @ M	3250 @ M	6820 @ M	6570 @ M
Fluorene	<10 µg/kg	TM218		54 @ M	20.8 @ M	286 @ M	3210 @ M	8750 @ M	8820 @ M
Phenanthrene	<15 µg/kg	TM218		147 @ M	52.6 @ M	646 @ M	6200 @ M	19000 @ M	18900 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	524 @ M	3340 @ M	5830 @ M	6130 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	221 @ M	202 @ M	269 @ M	214 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	313 @ M	594 @ M	995 @ M	1040 @ M
Benz(a)anthracene	<14 µg/kg	TM218		16.7 @ M	21.1 @ M	140 @ M	15.8 @ M	53.8 @ M	44.5 @ M
Chrysene	<10 µg/kg	TM218		42.8 @ M	21.1 @ M	154 @ M	71.6 @ M	68.6 @ M	79.6 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		30.7 @ M	16.4 @ M	228 @ M	60.5 @ M	76.2 @ M	37.5 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	94.9 @ M	<14 @ M	20.5 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	192 @ M	<15 @ M	31 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	151 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	50.2 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	266 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		387	152	3790	17800	44000	44100

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3163	IP 3164	IP 3164	IP 3164	IP 3164	IP 3164
			Depth (m)	4.50	0.50	1.50	2.50	3.50	4.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826636	9826641	9826646	9826650	9826654	9826659
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		101	108	97	105	104	97
Acenaphthene-d10 % recovery**	%	TM218		110	103	97	114	117	98
Phenanthrene-d10 % recovery**	%	TM218		105	101	98	113	110	92.2
Chrysene-d12 % recovery**	%	TM218		104	106	93.1	114	112	100
Perylene-d12 % recovery**	%	TM218		111	104	101	117	114	95.6
Naphthalene	<9 µg/kg	TM218		335 @ M	133 @ M	<9 @ M	642 M	909 M	318 @ M
Acenaphthylene	<12 µg/kg	TM218		200 @ M	<24 @ M	<12 @ M	<12 M	115 M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		4700 @ M	53.7 @ M	<8 @ M	3020 M	4370 M	712 @ M
Fluorene	<10 µg/kg	TM218		5500 @ M	83.6 @ M	<10 @ M	4030 M	5050 M	703 @ M
Phenanthrene	<15 µg/kg	TM218		11700 @ M	1180 @ M	42.4 @ M	7370 M	9390 M	604 @ M
Anthracene	<16 µg/kg	TM218		3950 @ M	156 @ M	<16 @ M	3000 M	3540 M	824 @ M
Fluoranthene	<17 µg/kg	TM218		152 @ M	2250 @ M	43.2 @ M	130 M	159 M	49.8 @ M
Pyrene	<15 µg/kg	TM218		676 @ M	1920 @ M	37.4 @ M	377 M	485 M	116 @ M
Benz(a)anthracene	<14 µg/kg	TM218		27.3 @ M	1470 @ M	37.5 @ M	35.7 M	21.9 M	30 @ M
Chrysene	<10 µg/kg	TM218		56.5 @ M	1820 @ M	27.9 @ M	42.7 M	83.4 M	36.1 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		35.4 @ M	1660 @ M	31.8 @ M	37 M	53.5 M	28.9 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	700 @ M	18.2 @ M	<14 M	<14 M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	1550 @ M	<15 @ M	<15 M	<15 M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	784 @ M	<18 @ M	<18 M	<18 M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	309 @ M	<23 @ M	<23 M	<23 M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	951 @ M	<24 @ M	<24 M	<24 M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		27400	15000	238	18700	24200	3420

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3164	TPE 910	TPE 910	TPE 910		
			Depth (m)	5.50	0.30	1.00	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014		
			Sample Time	.	.	.	.		
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014		
			SDG Ref	140818-45	140818-45	140818-45	140818-45		
			Lab Sample No.(s)	9826667	9826506	9826510	9826514		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.2	97.9	101	97.4		
Acenaphthene-d10 % recovery**	%	TM218		97.3	97.6	102	96.2		
Phenanthrene-d10 % recovery**	%	TM218		97.7	98.4	102	103		
Chrysene-d12 % recovery**	%	TM218		95.4	94.5	99	105		
Perylene-d12 % recovery**	%	TM218		99.8	100	109	117		
Naphthalene	<9 µg/kg	TM218		12.8 @ M	82.5 @ M	<9 @ M	185 @ M		
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M		
Acenaphthene	<8 µg/kg	TM218		26.8 @ M	<8 @ M	<8 @ M	45.2 @ M		
Fluorene	<10 µg/kg	TM218		30.3 @ M	<10 @ M	<10 @ M	96.1 @ M		
Phenanthrene	<15 µg/kg	TM218		70.6 @ M	146 @ M	47.7 @ M	251 @ M		
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	42.5 @ M		
Fluoranthene	<17 µg/kg	TM218		<17 @ M	163 @ M	<17 @ M	<17 @ M		
Pyrene	<15 µg/kg	TM218		<15 @ M	130 @ M	19 @ M	19.8 @ M		
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	89.8 @ M	25.8 @ M	21.6 @ M		
Chrysene	<10 µg/kg	TM218		<10 @ M	139 @ M	19.9 @ M	29.5 @ M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	211 @ M	26.9 @ M	31.5 @ M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	95.6 @ M	<14 @ M	<14 @ M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	129 @ M	<15 @ M	<15 @ M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	117 @ M	<18 @ M	<18 @ M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	36.3 @ M	<23 @ M	<23 @ M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	145 @ M	<24 @ M	<24 @ M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		141	1490	139	722		

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 508	IP 508	IP 508	IP 509	IP 511	IP 511
			Depth (m)	0.50	0.80	1.50	0.50	0.10	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	-	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9838237	9838243	9838223	9826397	9826112	9826342
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		112 §	107 §	104 §	91 @	90 @	74 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 § M	<176 § M	145000 § M	<176 @ M	<176 @ M	2260 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 § M	<20 § M	<20 § M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 § M	<40 § M	<40 § M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 § M	<8 § M	<8 § M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 § M	<12 § M	<12 § M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 § M	<24 § M	<24 § M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 § M	<12 § M	<12 § M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 §	<9 §	<9 §	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 §	<24 §	<24 §	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 §	<40 §	<40 §	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 §	<40 §	1320 §	<40 @	<40 @	190 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 §	<40 §	25900 §	<40 @	<40 @	626 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 §	<40 §	60200 §	<40 @	<40 @	588 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100 §	<100 §	404000 §	596	3070	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		3990 §	<100 §	8820 §	12200	30200	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		8690 §	1770 §	<100 §	21900	30200	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100 §	<100 §	<100 §	1200	369	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		12700 §	1770 §	413000 §	35800	63800	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 §	<40 §	<40 §	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 §	<40 §	<40 §	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 §	<40 §	17300 §	<40 @	<40 @	422 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 §	<40 §	40100 §	<40 @	<40 @	392 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100 §	<100 §	33600 §	322	606	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		3670 §	<100 §	2060 §	2860	6430	403
Aromatics >EC21-EC35	<100 µg/kg	TM173		21600 §	4540 §	<100 §	11500	28900	1900
Aromatics >EC35-EC44	<100 µg/kg	TM173		6750 §	953 §	<100 §	1570	8700	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		2220 §	<100 §	<100 §	415	2570	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		32000 §	5500 §	35700 §	16200	44600	2300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		44800 §	7270 §	594000 §	52200	109000	4560
Aromatics >EC16-EC35	<100 µg/kg	TM173		25300 §	4540 §	2060 §	14300	35300	2300

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 512	IP 513	IP 513	IP 514	IP 514	IP 514
			Depth (m)	0.20	0.50	0.80	0.20	0.50	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826463	9838225	9838227	9826304	9826325	9826331
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		94 @	91 §	103 §	87 @	96 @	106 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		290 @ M	387 § M	93700 § M	<176 @ M	353 @ M	<176 @ #
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 § M	<20 § M	<20 @ M	<20 @ M	<20 @ #
Benzene	<10 µg/kg	TM089		<40 @ M	<40 § M	<40 § M	<40 @ M	<40 @ M	<40 @ #
Toluene	<2 µg/kg	TM089		<8 @ M	<8 § M	<8 § M	<8 @ M	<8 @ M	<8 @ #
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 § M	<12 § M	<12 @ M	<12 @ M	<12 @ #
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 § M	<24 § M	<24 @ M	<24 @ M	<24 @ #
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 § M	<12 § M	<12 @ M	<12 @ M	<12 @ #
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 §	<9 §	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<24 §	<24 §	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 §	42.4 §	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		55.4 @	<40 §	282 §	<40 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		64.4 @	<40 §	12100 §	<40 @	71.3 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		65.5 @	171 §	43900 §	<40 @	112 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		108000	15900 §	1900000 §	1800	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		227000	15900 §	1700000 §	13200	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		204000	13400 §	477000 §	37200	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		22200	<100 §	1980 §	35200	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		561000	45200 §	4080000 §	87400	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 §	<40 §	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 §	<40 §	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		45.2 @	<40 §	8100 §	<40 @	46.7 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		44.1 @	113 §	29300 §	<40 @	75 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		11800	<100 §	131000 §	3960	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		53500	<100 §	474000 §	30600	<100	1920
Aromatics >EC21-EC35	<100 µg/kg	TM173		88200	<100 §	231000 §	160000	<100	10400
Aromatics >EC35-EC44	<100 µg/kg	TM173		18500	<100 §	4570 §	96600	<100	2950
Aromatics >EC40-EC44	<100 µg/kg	TM173		6220	<100 §	1500 §	44800	<100	1010
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		172000	<100 §	841000 §	291000	<100	15300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		734000	45500 §	5010000 §	379000	353	15300
Aromatics >EC16-EC35	<100 µg/kg	TM173		142000	<100 §	705000 §	191000	<100	12300

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 514	IP 538	IP 538	IP 538	IP 544	IP 544
			Depth (m)	1.50	0.20	0.50	1.50	0.20	1.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	-	-	-	-	-
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826336	9838231	9838233	9838236	9838230	9838226
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		130 @	103 §	120 §	97 §	82 §	132 §
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		685 @ #	359 § M	314 § M	435 § M	<176 § M	70300 § M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ #	<20 § M	<20 § M	<20 § M	<20 § M	61 § M
Benzene	<10 µg/kg	TM089		<40 @ #	<40 § M	<40 § M	<40 § M	<40 § M	80.5 § M
Toluene	<2 µg/kg	TM089		<8 @ #	<8 § M	<8 § M	<8 § M	<8 § M	<8 § M
Ethylbenzene	<3 µg/kg	TM089		<12 @ #	<12 § M	<12 § M	<12 § M	<12 § M	<12 § M
m,p-Xylene	<6 µg/kg	TM089		<24 @ #	<24 § M	<24 § M	<24 § M	<24 § M	<24 § M
o-Xylene	<3 µg/kg	TM089		<12 @ #	<12 § M	<12 § M	<12 § M	<12 § M	<12 § M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 §	<9 §	<9 §	<9 §	<9 §
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<24 §	<24 §	<24 §	<24 §	80.5 §
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 §	<40 §	<40 §	<40 §	236 §
Aliphatics >C6-C8	<10 µg/kg	TM089		75.1 @	49 §	65 §	83.1 §	<40 §	14600 §
Aliphatics >C8-C10	<10 µg/kg	TM089		156 @	87 §	87.5 §	104 §	<40 §	14300 §
Aliphatics >C10-C12	<10 µg/kg	TM089		189 @	76.2 §	48.8 §	81.9 §	<40 §	19000 §
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	64700 §	1870 §	2240 §	<100 §	109000 §
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	167000 §	1680 §	5090 §	5780 §	99200 §
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	148000 §	475 §	28100 §	6920 §	20800 §
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	31300 §	<100 §	16300 §	<100 §	<100 §
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	411000 §	4020 §	51800 §	12700 §	229000 §
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 §	<40 §	<40 §	<40 §	80.5 §
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 §	<40 §	<40 §	<40 §	<40 §
Aromatics >EC8-EC10	<10 µg/kg	TM089		106 @	65.3 §	58.8 §	69 §	<40 §	9520 §
Aromatics >EC10-EC12	<10 µg/kg	TM089		126 @	50.3 §	<40 §	55 §	<40 §	12600 §
Aromatics >EC12-EC16	<100 µg/kg	TM173		179	3580 §	354 §	<100 §	<100 §	16400 §
Aromatics >EC16-EC21	<100 µg/kg	TM173		315	34700 §	1640 §	849 §	4540 §	31000 §
Aromatics >EC21-EC35	<100 µg/kg	TM173		3400	110000 §	6780 §	4410 §	27900 §	15800 §
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	31700 §	1480 §	1680 §	6340 §	889 §
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	11000 §	385 §	218 §	1860 §	<100 §
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		3890	180000 §	10200 §	6930 §	38800 §	64100 §
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4580	591000 §	14600 §	59100 §	51500 §	363000 §
Aromatics >EC16-EC35	<100 µg/kg	TM173		3710	144000 §	8410 §	5260 §	32500 §	46800 §

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 546	IP 546	IP 571	IP 571	IP 571	IP 584
			Depth (m)	0.20	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826204	9826252	9826346	9826352	9826357	9826362
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		83 @	79 @	100 @	114 @	124 @	135 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	81200 @ M	136000 @ M	176000 @ M	270000 @ M	1130000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<100 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<200 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<40 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<120 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<36 @	<180 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<96 @	<96 @	<480 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	253 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	219 @	820 @	1660 @	2710 @	15100 @
Aliphatics >C8-C10	<10 µg/kg	TM089		41 @	8340 @	37200 @	51100 @	85000 @	349000 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	40200 @	44100 @	53500 @	75600 @	318000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		9340	<100	60600	56100	129000	18100
Aliphatics >C16-C21	<100 µg/kg	TM173		31100	<100	141000	43300	118000	5890
Aliphatics >C21-C35	<100 µg/kg	TM173		28100	<100	88900	16200	41800	4490
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	821	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		68600	<100	291000	116000	289000	28500
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<200 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	5560 @	24800 @	34100 @	56700 @	232000 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	26800 @	29400 @	35700 @	50400 @	212000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1840	<100	12300	9450	6340	6390
Aromatics >EC16-EC21	<100 µg/kg	TM173		8050	<100	51800	16100	21100	1740
Aromatics >EC21-EC35	<100 µg/kg	TM173		29300	2160	40800	11300	16600	5200
Aromatics >EC35-EC44	<100 µg/kg	TM173		8420	327	1190	<100	2590	628
Aromatics >EC40-EC44	<100 µg/kg	TM173		3000	<100	339	<100	1030	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		47600	2490	106000	36800	46600	14000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		116000	83700	533000	329000	606000	1170000
Aromatics >EC16-EC35	<100 µg/kg	TM173		37400	2160	92600	27400	37700	6950

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 585	IP 585	IP 615	IP 615	IP 615	IP 633
			Depth (m)	1.00	2.00	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826368	9826373	9826379	9826385	9826392	9826402
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		82 @	129	76 @	124 @	120 @	94 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		114000 @ M	985000 M	203 @ M	211000 @ M	303000 @ M	99300 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<100 M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<200 M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<40 M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<60 M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		523 @ M	<120 M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<60 M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		523 @	<9	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		523 @	<24	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		184 @	978	<40 @	177 @	111 @	44 @
Aliphatics >C6-C8	<10 µg/kg	TM089		1440 @	11700	40.1 @	3930 @	4270 @	1600 @
Aliphatics >C8-C10	<10 µg/kg	TM089		30600 @	264000	52 @	65700 @	85000 @	16900 @
Aliphatics >C10-C12	<10 µg/kg	TM089		36400 @	320000	<40 @	58100 @	94300 @	41700 @
Aliphatics >C12-C16	<100 µg/kg	TM173		15900	37000	<100	23700	15900	1710
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	4280	3390	5810
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	559	10400
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1830
Total Aliphatics >C12-C44	<100 µg/kg	TM173		15900	37000	<100	28000	19900	19800
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<200	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<200	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		20900 @	176000	43.3 @	43800 @	56700 @	11300 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		24200 @	213000	<40 @	38800 @	62900 @	27800 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		3280	7530	<100	1130	1430	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	256	921	<100	141	2290
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	2340	5840	<100	544	22900
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	2190	<100	<100	7800
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	516	<100	<100	2400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		3280	10100	8940	1130	2120	33000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		133000	1030000	9150	240000	325000	152000
Aromatics >EC16-EC35	<100 µg/kg	TM173		<100	2600	6760	<100	685	25200

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend
ISO17025 accredited.
M *m*CERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
***** Subcontracted test.
****** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1-5&+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 633	IP 633	IP 634	IP 634	IP 634	IP 661
			Depth (m)	1.50	2.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826408	9826413	9826418	9826425	9826430	9826435
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		112 3 @	153 @	108 @	116	111 2	88 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1890000 3 @ M	1160000 @ M	16100 @ M	471000 M	222000 2 #	16100 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 3 @ M	<100 @ M	<20 @ M	<50 M	<20 2 #	<20 @ M
Benzene	<10 µg/kg	TM089		<200 3 @ M	<200 @ M	<40 @ M	<100 M	<40 2 #	<40 @ M
Toluene	<2 µg/kg	TM089		<40 3 @ M	<40 @ M	14.9 @ M	<20 M	<8 2 #	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<60 3 @ M	<60 @ M	<12 @ M	<30 M	<12 2 #	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<120 3 @ M	<120 @ M	<24 @ M	<60 M	<24 2 #	<24 @ M
o-Xylene	<3 µg/kg	TM089		<60 3 @ M	<60 @ M	<12 @ M	<30 M	<12 2 #	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<180 3 @	<180 @	<36 @	<9	<9 2	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<480 3 @	<480 @	<96 @	<24	<24 2	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<200 3 @	1490 @	<40 @	164	40.3 2	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		15200 3 @	48000 @	300 @	7020	2890 2	183 @
Aliphatics >C8-C10	<10 µg/kg	TM089		513000 3 @	381000 @	5290 @	117000	50000 2	1860 @
Aliphatics >C10-C12	<10 µg/kg	TM089		612000 3 @	284000 @	4150 @	161000	81500 2	7690 @
Aliphatics >C12-C16	<100 µg/kg	TM173		177000	98100	<100	29900	46100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		25200	24300	5090	3140	3820	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		2370	3910	10100	<100	<100	957
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	244	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		204000	126000	15400	33000	49900	957
Aromatics >EC5-EC7	<10 µg/kg	TM089		<200 3 @	<200 @	<40 @	<100	<40 2	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200 3 @	<200 @	<40 @	<100	<40 2	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		342000 3 @	254000 @	3530 @	78100	33300 2	1240 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		408000 3 @	189000 @	2760 @	107000	54300 2	5130 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		13300	11400	<100	6960	2690	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		4240	711	1400	868	<100	843
Aromatics >EC21-EC35	<100 µg/kg	TM173		3170	3080	16600	<100	1730	8320
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	162	4350	<100	<100	2530
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	1010	<100	<100	498
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		20800	15300	22400	7820	4420	11700
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2120000	1300000	53900	512000	276000	28800
Aromatics >EC16-EC35	<100 µg/kg	TM173		7400	3790	18000	868	1730	9160

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend
- # ISO17025 accredited.
- M *m*CERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
- tot.unfilt Total / unfiltered sample.
- * Subcontracted test.
- ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
- (F) Trigger breach confirmed
- 1-5&+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 661	IP 690	IP 690	IP 690	IP 690	IP 713
			Depth (m)	2.00	0.50	1.30	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826441	9826449	9826454	9826469	9826473	9826478
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		138 @	83 @	102 @	97	101 @	90 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		263000 @ M	<176 @ M	44000 @ M	157000 M	110000 @ #	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<100 @ M	<20 M	<20 @ #	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<200 @ M	<40 M	<40 @ #	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<40 @ M	<8 M	<8 @ #	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<60 @ M	<12 M	<12 @ #	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<120 @ M	<24 M	<24 @ #	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<60 @ M	<12 M	<12 @ #	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<36 @	<9 @	<9	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<96 @	<24 @	<24	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		336 @	<40 @	<200 @	866	245 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		9500 @	<40 @	361 @	8920	2910 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		77000 @	<40 @	5730 @	39100	25400 @	40.5 @
Aliphatics >C10-C12	<10 µg/kg	TM089		74600 @	40.5 @	20400 @	49300	38900 @	59.5 @
Aliphatics >C12-C16	<100 µg/kg	TM173		30600	5080	112000	21500	4400	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		2430	6870	12500	3910	1940	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		669	8350	25500	<100	849	16200
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	825	<100	<100	4240
Total Aliphatics >C12-C44	<100 µg/kg	TM173		33700	20300	151000	25400	7200	20400
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<200 @	<40	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<200 @	<40	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		51300 @	<40 @	3840 @	26100	17000 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		49700 @	<40 @	13600 @	32900	25900 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		8190	565	14000	3170	728	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		650	1490	9500	468	249	582
Aromatics >EC21-EC35	<100 µg/kg	TM173		783	16400	81900	4340	<100	13600
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	7840	64100	1360	<100	4310
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	2330	3410	<100	<100	933
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		9620	26300	170000	9330	977	18500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		306000	46700	364000	192000	119000	39100
Aromatics >EC16-EC35	<100 µg/kg	TM173		1430	17900	91400	4800	249	14200

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 713	IP 713	IP 719	IP 719	IP 719	IP 726
			Depth (m)	0.70	1.50	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826482	9826486	9826208	9826212	9826216	9826318
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		89 @	94 @	108 @	125 @	84 @	82 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<880 @ M	7890 @ #	<176 @ M	6440 @ M	9480 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<100 @ M	<20 @ #	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<200 @ M	<40 @ #	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<40 @ M	<8 @ #	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<60 @ M	<12 @ #	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<120 @ M	<24 @ #	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<60 @ M	<12 @ #	<12 @ M	14 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<36 @	<36 @	14 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	<96 @	<96 @	<24 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<200 @	355 @	<40 @	<40 @	42.2 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		419 @	1340 @	<40 @	76.1 @	105 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		237 @	923 @	<40 @	393 @	743 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<200 @	2780 @	<40 @	3400 @	4850 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	740000	428000	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	1110000	609000	1540
Aliphatics >C21-C35	<100 µg/kg	TM173		120000	2200	1090	131000	74400	11000
Aliphatics >C35-C44	<100 µg/kg	TM173		1800	<100	<100	1420	653	2170
Total Aliphatics >C12-C44	<100 µg/kg	TM173		122000	2200	1090	1980000	1110000	14700
Aromatics >EC5-EC7	<10 µg/kg	TM089		<200 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<200 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<200 @	615 @	<40 @	281 @	507 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<200 @	1850 @	<40 @	2260 @	3230 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	1840	22800	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		5230	<100	<100	18900	62100	1160
Aromatics >EC21-EC35	<100 µg/kg	TM173		355000	4980	1450	15700	14600	18500
Aromatics >EC35-EC44	<100 µg/kg	TM173		205000	1410	701	2040	<100	15600
Aromatics >EC40-EC44	<100 µg/kg	TM173		34900	<100	<100	284	<100	5920
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		565000	6380	2150	38400	99500	35200
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		689000	16500	3250	2030000	1220000	50000
Aromatics >EC16-EC35	<100 µg/kg	TM173		360000	4980	1450	34600	76700	19700

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 729	IP 729	IP 729	IP 729	IP 729	IP 729
			Depth (m)	0.50	1.00	1.50	2.00	3.00	4.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826221	9826225	9826230	9826236	9826240	9826244
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		67 @	55 @	83 2	86 @	69 @	136 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		226 @ M	518 @ M	896 2 M	1750 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 2 M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 2 M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 2 M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 2 M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 2 M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 2 M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<9 2	<36 @	<36 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<24 2	<96 @	<96 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 2	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		52 @	48.6 @	<40 2	70.8 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		45.2 @	67.5 @	76.3 2	197 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		45.2 @	192 @	449 2	789 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	124000	160000	15200	1560	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		3390	868000	506000	37100	4250	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		11900	204000	83200	5650	425	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	7720	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		15300	1200000	749000	57900	6230	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 2	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 2	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	51.3 @	51.3 2	133 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	128 @	299 2	526 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	9140	849	<100	482	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	131000	15000	<100	879	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		1870	222000	11600	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	66100	3520	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	25900	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1870	429000	31000	<100	1360	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		17400	1630000	781000	59700	7600	<100
Aromatics >EC16-EC35	<100 µg/kg	TM173		1870	354000	26700	<100	879	<100

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 730	IP 730	IP 731	IP 731	IP 731	IP 731
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.50	1.50	0.50	1.50	2.50	3.50
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
		SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
(F)	Trigger breach confirmed	Lab Sample No.(s)	9826195	9826200	9826248	9826257	9826261	9826266
1-5&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	65 @	134 @	78 @	132 @	81 @	106 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 @ M	62400 @ M	<176 @ M	<176 @ M	5740 @ M	59500 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	28.6 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9 @	<9 @	<36 @	<9 @	<9 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089	<24 @	<24 @	<96 @	<24 @	28.6 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089	42.5 @	1020 @	48.6 @	<40 @	233 @	194 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<40 @	13800 @	41.8 @	<40 @	1760 @	13500 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<40 @	23000 @	<40 @	<40 @	1500 @	22100 @
Aliphatics >C12-C16	<100 µg/kg	TM173	210000	190000	6790	147000	19300	174000
Aliphatics >C16-C21	<100 µg/kg	TM173	755000	233000	173000	346000	61800	365000
Aliphatics >C21-C35	<100 µg/kg	TM173	152000	29900	48900	45100	12500	50900
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1120000	453000	229000	538000	93600	590000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40 @	9170 @	<40 @	<40 @	1230 @	9020 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40 @	15400 @	<40 @	<40 @	997 @	14700 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	8240	4110	1480	1310	314	3150
Aromatics >EC16-EC21	<100 µg/kg	TM173	92600	11600	7470	7700	2280	12600
Aromatics >EC21-EC35	<100 µg/kg	TM173	52300	5790	14200	4400	10700	6040
Aromatics >EC35-EC44	<100 µg/kg	TM173	6540	1240	2880	<100	8090	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	1130	534	937	<100	363	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	160000	22700	26000	13400	21400	21800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1280000	538000	255000	551000	121000	671000
Aromatics >EC16-EC35	<100 µg/kg	TM173	145000	17400	21600	12100	13000	18600

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 732	IP 732	IP 732	IP 732	IP 733	IP 733
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826179	9826183	9826187	9826191	9826300	9826308
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		51 @	91 @	82 @	78 @	99 @	70 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	1040 @ M	65300 @ M	1680 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 @	<9 @	<9 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<24 @	<24 @	<24 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	60.8 @	136 @	41.8 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	63.2 @	14800 @	376 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	513 @	24300 @	594 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		607	144000	358000	62800	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		640	548000	605000	216000	445	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		1010	99400	73800	45100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		1750	<100	936	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		4010	791000	1040000	324000	445	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	42.2 @	9840 @	251 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	342 @	16200 @	396 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		377	1670	11200	1030	471	572
Aromatics >EC16-EC21	<100 µg/kg	TM173		2140	21300	32600	7690	5360	853
Aromatics >EC21-EC35	<100 µg/kg	TM173		15000	15400	14500	7750	20400	5180
Aromatics >EC35-EC44	<100 µg/kg	TM173		8210	2990	3270	1900	6680	563
Aromatics >EC40-EC44	<100 µg/kg	TM173		3530	1020	1350	754	1470	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		25800	41300	61600	18400	32900	7170
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		29800	834000	1160000	344000	33400	7190
Aromatics >EC16-EC35	<100 µg/kg	TM173		17200	36700	47100	15400	25700	6030

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 733	IP 742	IP 742	IP 742	IP 742	IP 747
			Depth (m)	2.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826312	9826149	9826153	9826157	9826163	9826271
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		87 @	91 @	91 @	70 @	92 @	108 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 @ M	<176 @ M	17400 @ M	1800 @ M	<880 @ M	18500 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<100 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<200 @ M	53.6 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<40 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<120 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<60 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<9 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<96 @	<24 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	67.8 @	<40 @	<200 @	741 @
Aliphatics >C6-C8	<10 µg/kg	TM089		<40 @	<40 @	723 @	86.2 @	<200 @	10400 @
Aliphatics >C8-C10	<10 µg/kg	TM089		<40 @	<40 @	2810 @	157 @	<200 @	3410 @
Aliphatics >C10-C12	<10 µg/kg	TM089		<40 @	53.4 @	7180 @	842 @	<200 @	1010 @
Aliphatics >C12-C16	<100 µg/kg	TM173		386	<100	3580	750	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		2870	<100	<100	827	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		615	1030	<100	436	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	459	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3870	1030	3580	2470	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	53.6 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<200 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40 @	<40 @	1870 @	113 @	<200 @	2280 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 @	<40 @	4790 @	561 @	<200 @	676 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	389	<100	176	<100	937
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	687	<100	345	<100	477
Aromatics >EC21-EC35	<100 µg/kg	TM173		629	7450	<100	1390	<100	5040
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	1640	<100	335	<100	1000
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	142	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		629	10200	<100	2240	<100	7450
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4500	11400	21000	6510	<100	26000
Aromatics >EC16-EC35	<100 µg/kg	TM173		629	8130	<100	1730	<100	5510

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 747	IP 747	IP 781	IP 781	IP 781	IP 781
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826275	9826280	9826132	9826136	9826141	9826145
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		113 @	106 @	86 @	117	126 @	147 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		2090 @ M	856 @ M	4400 @ M	1080000 M	378000 @ M	2690000 3 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	1100 M	<50 @ M	<100 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<200 M	434 @ M	1480 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	15.2 @ M	<40 M	<20 @ M	<40 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<60 M	<30 @ M	<60 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<120 M	<60 @ M	<120 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	42.1 @ M	<60 M	<30 @ M	<60 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	42.1 @	<9	<90 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<24	434 @	1480 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	487 @	1600	3400 @	37200 3 @
Aliphatics >C6-C8	<10 µg/kg	TM089		498 @	105 @	2310 @	75500	94700 @	591000 3 @
Aliphatics >C8-C10	<10 µg/kg	TM089		622 @	86.3 @	606 @	241000	121000 @	776000 3 @
Aliphatics >C10-C12	<10 µg/kg	TM089		307 @	351 @	291 @	360000	46600 @	461000 3 @
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	35500	1920000	33700	28000
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	11100	1010000	8800	3830
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	6940	319000	3420	939
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<200	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	53600	3250000	46000	32800
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	41 @	<200	434 @	1480 3 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200	<100 @	<200 3 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		415 @	57.5 @	460 @	161000	80900 @	517000 3 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		205 @	234 @	194 @	240000	31100 @	307000 3 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	856	298000	4310	10600
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	1700	268000	1050	1080
Aromatics >EC21-EC35	<100 µg/kg	TM173		4180	1030	9250	151000	877	125
Aromatics >EC35-EC44	<100 µg/kg	TM173		2020	<100	3460	11500	277	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	3120	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		6200	1030	15300	729000	6510	11800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		8270	1890	73200	5050000	431000	2740000
Aromatics >EC16-EC35	<100 µg/kg	TM173		4180	1030	11000	420000	1930	1210

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 782	IP 782	IP 782	IP 782	IP 783	IP 783
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.50	1.50	2.50	3.70	0.40	1.50
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
		SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
(F)	Trigger breach confirmed	Lab Sample No.(s)	9826760	9826117	9826121	9826127	9826738	9826743
1-5&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	88 @	81 @	94	120 @	95 @	114 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	27000 @ M	85900 @ M	273000 M	202000 @ M	762 @ M	281000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 @ M	<20 M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089	<40 @ M	<40 @ M	90.7 M	123 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089	<8 @ M	<8 @ M	<8 M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 @ M	<24 M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36 @	<36 @	<9	<9 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089	<96 @	<96 @	90.7	123 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	108 @	1100	1960 @	<40 @	240 @
Aliphatics >C6-C8	<10 µg/kg	TM089	55.4 @	1610 @	17200	38500 @	79.1 @	14000 @
Aliphatics >C8-C10	<10 µg/kg	TM089	873 @	9900 @	38900	43200 @	146 @	76100 @
Aliphatics >C10-C12	<10 µg/kg	TM089	15300 @	40600 @	114000	53700 @	234 @	84200 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	256000	789000	41600	20000	713000
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	872	1080	1770	20100	10500
Aliphatics >C21-C35	<100 µg/kg	TM173	3940	<100	<100	316	159000	80700
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	4680	4740
Total Aliphatics >C12-C44	<100 µg/kg	TM173	3940	257000	790000	43700	204000	809000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40 @	90.7	123 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40 @	<40	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	582 @	6600 @	25900	28800 @	125 @	50700 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	10200 @	27100 @	75900	35800 @	156 @	56100 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	314	5520	212000	10900	1810	31600
Aromatics >EC16-EC21	<100 µg/kg	TM173	1940	586	2070	500	10400	6490
Aromatics >EC21-EC35	<100 µg/kg	TM173	9700	<100	642	<100	105000	34600
Aromatics >EC35-EC44	<100 µg/kg	TM173	4190	<100	<100	<100	7200	1980
Aromatics >EC40-EC44	<100 µg/kg	TM173	1480	<100	<100	<100	2210	375
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	16100	6110	214000	11400	124000	74700
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	47000	349000	1280000	257000	329000	1170000
Aromatics >EC16-EC35	<100 µg/kg	TM173	11600	586	2710	500	115000	41100

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 783	IP 783	IP 783	IP 784	IP 784	IP 784
			Depth (m)	2.50	3.50	4.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826748	9826752	9826756	9826717	9826721	9826726
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		64 @	91 @	88 @	100 @	126 @	115 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		68800 @ M	179000 @ M	116000 @ M	48800 @ M	<176 @ M	97400 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<96 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	55.4 @	42.2 @	<40 @	<40 @	56.5 @
Aliphatics >C6-C8	<10 µg/kg	TM089		652 @	2420 @	1260 @	60.5 @	<40 @	1910 @
Aliphatics >C8-C10	<10 µg/kg	TM089		10500 @	36900 @	19900 @	2120 @	<40 @	23600 @
Aliphatics >C10-C12	<10 µg/kg	TM089		30400 @	69300 @	49200 @	27100 @	<40 @	33700 @
Aliphatics >C12-C16	<100 µg/kg	TM173		52500	269000	34300	<100	<100	270000
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	1150	<100	<100	<100	8760
Aliphatics >C21-C35	<100 µg/kg	TM173		362	2550	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		52900	273000	34300	<100	<100	279000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		7020 @	24600 @	13300 @	1410 @	<40 @	15700 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		20200 @	46200 @	32800 @	18100 @	<40 @	22500 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		16500	21400	8710	<100	<100	76500
Aromatics >EC16-EC21	<100 µg/kg	TM173		1280	1800	1060	<100	<100	4450
Aromatics >EC21-EC35	<100 µg/kg	TM173		1250	4370	<100	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	1660	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	654	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		19000	29300	9770	<100	<100	81000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		141000	481000	160000	48800	<100	457000
Aromatics >EC16-EC35	<100 µg/kg	TM173		2530	6170	1060	<100	<100	4450

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 784	IP 784	IP 785	IP 785	IP 785	IP 785
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826730	9826734	9826691	9826696	9826701	9826708
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		86 @	88 @	112 @	95 @	97 @	131 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1840 @ M	79800 @ M	324 @ M	223000 @ M	32600 @ M	298000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	56.5 @	<40 @	206 @	<40 @	6100 @
Aliphatics >C6-C8	<10 µg/kg	TM089		119 @	1400 @	53.8 @	1450 @	184 @	50500 @
Aliphatics >C8-C10	<10 µg/kg	TM089		286 @	12600 @	68.8 @	16500 @	2130 @	74800 @
Aliphatics >C10-C12	<10 µg/kg	TM089		733 @	34400 @	83.8 @	116000 @	17300 @	69800 @
Aliphatics >C12-C16	<100 µg/kg	TM173		2980	67700	<100	487000	13500	53700
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	935	<100	26900	2910	7730
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	3060	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2980	68700	<100	517000	16400	61400
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		190 @	8380 @	46.3 @	11000 @	1420 @	49900 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		489 @	23000 @	56.3 @	77500 @	11500 @	46500 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		1140	8450	669	16200	1260	7910
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	563	918	2900	<100	1510
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	4660	1960	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	665	795	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	316	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1140	9020	6910	21800	1260	9420
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		5960	157000	7230	762000	50200	368000
Aromatics >EC16-EC35	<100 µg/kg	TM173		<100	563	5580	4860	<100	1510

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend
ISO17025 accredited.
M *m*CERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
***** Subcontracted test.
****** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1-5&+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 785	IP 786	IP 786	IP 786	IP 786	IP 788
			Depth (m)	4.50	0.50	1.50	2.50	3.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826713	9826671	9826676	9826682	9826686	9826167
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		99 @	101 @	107 @	100 @	74 @	75 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		137000 @ M	<176 @ M	169000 @ M	88200 @ M	5190 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	286 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<36 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	286 @	<96 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		432 @	<40 @	1290 @	3800 @	47 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		3920 @	<40 @	15800 @	23300 @	419 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		13000 @	<40 @	44100 @	18300 @	1320 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		66700 @	<40 @	47200 @	18200 @	1510 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		150000	<100	32100	<100	1220	2030
Aliphatics >C16-C21	<100 µg/kg	TM173		8420	<100	963	<100	790	8950
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	112	31300
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	8350
Total Aliphatics >C12-C44	<100 µg/kg	TM173		159000	<100	33100	<100	2120	50600
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	286 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		8670 @	<40 @	29400 @	12200 @	880 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		44400 @	<40 @	31500 @	12100 @	1010 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		33000	<100	5860	<100	280	2000
Aromatics >EC16-EC21	<100 µg/kg	TM173		2870	443	2260	<100	334	14000
Aromatics >EC21-EC35	<100 µg/kg	TM173		5430	6230	4230	876	1230	63200
Aromatics >EC35-EC44	<100 µg/kg	TM173		657	1750	1670	<100	<100	30200
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	747	<100	<100	11400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		42000	8420	14000	876	1850	109000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		338000	8440	216000	89100	9150	160000
Aromatics >EC16-EC35	<100 µg/kg	TM173		8300	6670	6490	876	1570	77200

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 788	IP 788	IP 790	IP 790	IP 790	IP 1306
			Depth (m)	1.50	2.50	0.20	0.80	1.80	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826171	9826175	9826285	9826291	9826296	9826558
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		75 @	83 @	65 @	100 @	92 @	87 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		464 @ M	8120 @ M	<176 @ M	<176 @ M	14900 @ M	1560 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 @	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<24 @	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		40 @	500 @	<40 @	<40 @	339 @	61.6 @
Aliphatics >C8-C10	<10 µg/kg	TM089		81.4 @	2030 @	<40 @	<40 @	2270 @	96.8 @
Aliphatics >C10-C12	<10 µg/kg	TM089		157 @	2530 @	<40 @	<40 @	6440 @	790 @
Aliphatics >C12-C16	<100 µg/kg	TM173		334000	15500	797000	8690	807000	143000
Aliphatics >C16-C21	<100 µg/kg	TM173		127000	5050	1240000	39200	1270000	363000
Aliphatics >C21-C35	<100 µg/kg	TM173		21200	2300	153000	10500	160000	130000
Aliphatics >C35-C44	<100 µg/kg	TM173		4200	<100	<100	351	203	2750
Total Aliphatics >C12-C44	<100 µg/kg	TM173		486000	22800	2190000	58800	2240000	639000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		70.4 @	1350 @	<40 @	<40 @	1510 @	64.9 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		105 @	1690 @	<40 @	<40 @	4290 @	527 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		10400	<100	16400	274	8160	30200
Aromatics >EC16-EC21	<100 µg/kg	TM173		29100	1670	53900	4630	41800	281000
Aromatics >EC21-EC35	<100 µg/kg	TM173		62900	6360	34500	7380	38800	198000
Aromatics >EC35-EC44	<100 µg/kg	TM173		41300	518	4660	2350	5360	24700
Aromatics >EC40-EC44	<100 µg/kg	TM173		5280	<100	987	751	1830	9610
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		144000	8540	109000	14600	94100	534000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		630000	39500	2300000	73400	2350000	1170000
Aromatics >EC16-EC35	<100 µg/kg	TM173		92000	8020	88400	12000	80600	479000

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 1306	IP 1306	IP 1354	IP 1354	IP 1760	IP 1760
			Depth (m)	0.50	2.50	0.50	1.30	0.20	1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826563	9826572	9826605	9826610	9826523	9826527
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		81 @	103 @	67 @	56 @	90 @	118 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		71300 @ M	78900 @ M	1120 @ M	1940 @ M	<176 @ M	<176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	19.4 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	260 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<9 @	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	260 @	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		48.4 @	72.3 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		2620 @	2030 @	41.8 @	88.3 @	<40 @	<40 @
Aliphatics >C8-C10	<10 µg/kg	TM089		11800 @	10200 @	141 @	174 @	<40 @	<40 @
Aliphatics >C10-C12	<10 µg/kg	TM089		29400 @	35800 @	503 @	911 @	<40 @	<40 @
Aliphatics >C12-C16	<100 µg/kg	TM173		827000	645000	114000	224000	2270	739
Aliphatics >C16-C21	<100 µg/kg	TM173		841000	758000	397000	861000	40200	7170
Aliphatics >C21-C35	<100 µg/kg	TM173		184000	185000	456000	812000	25800	4940
Aliphatics >C35-C44	<100 µg/kg	TM173		3780	8110	120000	219000	6840	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1860000	1600000	1090000	2120000	75000	12800
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		7840 @	7040 @	94.9 @	116 @	<40 @	<40 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		19600 @	23900 @	336 @	607 @	<40 @	<40 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		273000	10500	16400	63300	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		446000	24800	167000	500000	2670	776
Aromatics >EC21-EC35	<100 µg/kg	TM173		149000	30400	456000	1130000	13000	3600
Aromatics >EC35-EC44	<100 µg/kg	TM173		23700	12500	216000	488000	7090	538
Aromatics >EC40-EC44	<100 µg/kg	TM173		9560	5270	95500	210000	2740	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		892000	78300	855000	2180000	22700	4910
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2820000	1750000	1940000	4300000	97800	17800
Aromatics >EC16-EC35	<100 µg/kg	TM173		595000	55300	623000	1630000	15600	4380

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1938	IP 1938	IP 1938	IP 2501	IP 2501	IP 2501
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.30	1.00	1.60	0.20	0.40	1.50
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
		SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
(F)	Trigger breach confirmed	Lab Sample No.(s)	9826531	9826535	9826542	9826494	9826498	9826502
1-5&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	79 @	93 @	130 @	85 @	67 @	130 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	337 @ M	362 @ M	148000 @ M	45200 @ M	18900 @ M	229000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089	12.4 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	226 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36 @	<36 @	<36 @	226 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089	<96 @	<96 @	<96 @	226 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	<40 @	1080 @	<40 @	<40 @	5160 @
Aliphatics >C6-C8	<10 µg/kg	TM089	55.4 @	44.1 @	25000 @	1040 @	79.2 @	47000 @
Aliphatics >C8-C10	<10 µg/kg	TM089	67.8 @	53.4 @	26000 @	7690 @	625 @	38100 @
Aliphatics >C10-C12	<10 µg/kg	TM089	66.7 @	110 @	47200 @	18600 @	10600 @	67800 @
Aliphatics >C12-C16	<100 µg/kg	TM173	2580	3390	184000	102000	63100	916000
Aliphatics >C16-C21	<100 µg/kg	TM173	17000	15700	176000	107000	351000	278000
Aliphatics >C21-C35	<100 µg/kg	TM173	86400	54700	65700	142000	213000	268000
Aliphatics >C35-C44	<100 µg/kg	TM173	58000	52100	9190	75800	22300	42300
Total Aliphatics >C12-C44	<100 µg/kg	TM173	164000	126000	435000	427000	650000	1500000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	67.8 @	58 @	17300 @	5350 @	427 @	25400 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	45.2 @	73.1 @	31500 @	12400 @	7100 @	45200 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	2170	958	8740	82400	18800	166000
Aromatics >EC16-EC21	<100 µg/kg	TM173	20800	6510	28400	47700	99000	73000
Aromatics >EC21-EC35	<100 µg/kg	TM173	111000	51600	21800	140000	223000	133000
Aromatics >EC35-EC44	<100 µg/kg	TM173	60100	33600	6070	58800	33600	51600
Aromatics >EC40-EC44	<100 µg/kg	TM173	22900	13900	1570	25700	13800	20200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	195000	92700	65000	329000	374000	423000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	359000	219000	649000	801000	1040000	2160000
Aromatics >EC16-EC35	<100 µg/kg	TM173	132000	58100	50200	188000	322000	206000

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 3039	IP 3039	IP 3095	IP 3095	IP 3095	IP 3105
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	0.50	1.40	0.50	1.50	2.50	0.30
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
		SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
(F)	Trigger breach confirmed	Lab Sample No.(s)	9826548	9826553	9826576	9826580	9826584	9826589
1-5&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	102 @	91 @	81 @	74 @	83 @	95 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 @ M	1630 @ M	355 @ M	4930 @ M	1580 @ M	12400 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36 @	<36 @	<36 @	<36 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089	<96 @	<96 @	<96 @	<96 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	43.3 @	56.6 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<40 @	64.9 @	<40 @	148 @	125 @	2420 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<40 @	890 @	153 @	2780 @	786 @	4960 @
Aliphatics >C12-C16	<100 µg/kg	TM173	10900	224000	32100	49600	3120	6790
Aliphatics >C16-C21	<100 µg/kg	TM173	67800	911000	83900	138000	9880	1200
Aliphatics >C21-C35	<100 µg/kg	TM173	103000	579000	24300	36200	2490	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	30900	92600	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	212000	1810000	140000	224000	15500	7990
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40 @	43.7 @	<40 @	99.2 @	85.5 @	1610 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40 @	594 @	101 @	1860 @	524 @	3310 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	1710	13500	8180	13300	2460	1530
Aromatics >EC16-EC21	<100 µg/kg	TM173	17800	152000	38000	62500	6620	1150
Aromatics >EC21-EC35	<100 µg/kg	TM173	91200	260000	15000	24200	998	4230
Aromatics >EC35-EC44	<100 µg/kg	TM173	47700	106000	481	111	<100	930
Aromatics >EC40-EC44	<100 µg/kg	TM173	19700	45300	240	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	158000	532000	61700	100000	10100	7840
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	370000	2340000	202000	329000	27100	28200
Aromatics >EC16-EC35	<100 µg/kg	TM173	109000	413000	53000	86700	7620	5380

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3105	IP 3105	IP 3163	IP 3163	IP 3163	IP 3163
			Depth (m)	1.50	2.70	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826597	9826601	9826614	9826618	9826627	9826632
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		92 @	97 @	78 @	89 @	74 @	82 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		26000 @ M	4410 @ M	2000 @ M	30300 @ M	64900 @ M	69900 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<9 @	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<24 @	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		42.5 @	<40 @	86.6 @	154 @	1880 @	2080 @
Aliphatics >C8-C10	<10 µg/kg	TM089		3060 @	196 @	221 @	3120 @	8230 @	11600 @
Aliphatics >C10-C12	<10 µg/kg	TM089		12500 @	2430 @	911 @	15000 @	29500 @	29100 @
Aliphatics >C12-C16	<100 µg/kg	TM173		51700	779	95500	289000	1770000	838000
Aliphatics >C16-C21	<100 µg/kg	TM173		7930	6530	333000	620000	1960000	1490000
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	2050	444000	253000	390000	293000
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	73200	<100	13700	7530
Total Aliphatics >C12-C44	<100 µg/kg	TM173		59600	9360	946000	1160000	4130000	2630000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		2040 @	131 @	155 @	2080 @	5490 @	7750 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		8320 @	1620 @	608 @	9980 @	19700 @	19400 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		6790	825	54600	298000	526000	1560000
Aromatics >EC16-EC21	<100 µg/kg	TM173		4270	4130	171000	424000	812000	1490000
Aromatics >EC21-EC35	<100 µg/kg	TM173		3900	3030	385000	137000	136000	198000
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	146000	4400	28700	8680
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	60200	1770	11600	2160
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		15000	7980	756000	863000	1500000	3260000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		101000	21800	1700000	2060000	5700000	5960000
Aromatics >EC16-EC35	<100 µg/kg	TM173		8170	7160	555000	561000	948000	1690000

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend
ISO17025 accredited.
M *m*CERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
***** Subcontracted test.
****** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1-5&+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3163	IP 3164	IP 3164	IP 3164	IP 3164	IP 3164
			Depth (m)	4.50	0.50	1.50	2.50	3.50	4.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014	13/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014
			SDG Ref	140818-45	140818-45	140818-45	140818-45	140818-45	140818-45
			Lab Sample No.(s)	9826636	9826641	9826646	9826650	9826654	9826659
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		104 @	53 @	96 @	82 @	83 @	148 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		142000 @ M	1920 @ M	17100 @ M	48800 @ M	62400 @ M	91300 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<40 @ M	<40 @ M	130 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<36 @	<36 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<96 @	<96 @	130 @
Aliphatics >C5-C6	<10 µg/kg	TM089		449 @	<40 @	<40 @	52.6 @	<40 @	352 @
Aliphatics >C6-C8	<10 µg/kg	TM089		21400 @	<40 @	71.3 @	800 @	1280 @	12900 @
Aliphatics >C8-C10	<10 µg/kg	TM089		34800 @	115 @	1270 @	4260 @	9570 @	20100 @
Aliphatics >C10-C12	<10 µg/kg	TM089		37400 @	990 @	8930 @	24500 @	27100 @	26700 @
Aliphatics >C12-C16	<100 µg/kg	TM173		1150000	3910	78400	572000	797000	613000
Aliphatics >C16-C21	<100 µg/kg	TM173		1190000	24700	199000	1070000	1100000	466000
Aliphatics >C21-C35	<100 µg/kg	TM173		309000	231000	99900	105000	198000	95100
Aliphatics >C35-C44	<100 µg/kg	TM173		3290	102000	18300	3090	3300	3560
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2650000	361000	396000	1750000	2100000	1180000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	130 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		23200 @	111 @	846 @	2840 @	6380 @	13400 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		24900 @	659 @	5960 @	16300 @	18100 @	17800 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		457000	4540	16300	920000	927000	84100
Aromatics >EC16-EC21	<100 µg/kg	TM173		806000	29300	110000	900000	848000	162000
Aromatics >EC21-EC35	<100 µg/kg	TM173		152000	349000	122000	89700	145000	39800
Aromatics >EC35-EC44	<100 µg/kg	TM173		8530	252000	62600	5660	13000	7420
Aromatics >EC40-EC44	<100 µg/kg	TM173		2570	111000	27300	997	3840	2890
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1420000	635000	312000	1920000	1930000	294000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4220000	999000	724000	3720000	4090000	1560000
Aromatics >EC16-EC35	<100 µg/kg	TM173		958000	379000	233000	989000	992000	202000

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

TPH CWG (S)

Results Legend
ISO17025 accredited.
M *m*CERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
***** Subcontracted test.
****** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1-5&+§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	IP 3164	TPE 910	TPE 910	TPE 910		
			Depth (m)	5.50	0.30	1.00	2.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	13/08/2014	13/08/2014	13/08/2014	13/08/2014		
			Sample Time	.	.	.	.		
			Date Received	18/08/2014	18/08/2014	18/08/2014	18/08/2014		
			SDG Ref	140818-45	140818-45	140818-45	140818-45		
			Lab Sample No.(s)	9826667	9826506	9826510	9826514		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		104 @	86 @	89 @	125 @		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		2060 @ M	<176 @ M	<176 @ M	463000 @ M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		38.1 @ M	<20 @ M	<20 @ M	<100 @ M		
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 @ M	<200 @ M		
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<40 @ M		
Ethylbenzene	<3 µg/kg	TM089		14.6 @ M	<12 @ M	<12 @ M	<60 @ M		
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<120 @ M		
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<60 @ M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36 @	<36 @	<36 @	<180 @		
sum of detected BTEX by GC	<24 µg/kg	TM089		<96 @	<96 @	<96 @	<480 @		
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	<40 @	<40 @	3230 @		
Aliphatics >C6-C8	<10 µg/kg	TM089		342 @	<40 @	<40 @	85600 @		
Aliphatics >C8-C10	<10 µg/kg	TM089		362 @	<40 @	<40 @	127000 @		
Aliphatics >C10-C12	<10 µg/kg	TM089		610 @	<40 @	<40 @	97900 @		
Aliphatics >C12-C16	<100 µg/kg	TM173		10800	7930	3150	81700		
Aliphatics >C16-C21	<100 µg/kg	TM173		7360	69500	28600	81100		
Aliphatics >C21-C35	<100 µg/kg	TM173		1020	52400	22000	82700		
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	4510	504	13800		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		19200	134000	54300	259000		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200 @		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<200 @		
Aromatics >EC8-EC10	<10 µg/kg	TM089		264 @	<40 @	<40 @	84500 @		
Aromatics >EC10-EC12	<10 µg/kg	TM089		407 @	<40 @	<40 @	65200 @		
Aromatics >EC12-EC16	<100 µg/kg	TM173		2650	1020	<100	4360		
Aromatics >EC16-EC21	<100 µg/kg	TM173		2890	6060	3320	14200		
Aromatics >EC21-EC35	<100 µg/kg	TM173		1920	23000	9150	25900		
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	6030	272	7240		
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	2160	<100	1830		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		7460	36100	12700	51700		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		28700	170000	67100	774000		
Aromatics >EC16-EC35	<100 µg/kg	TM173		4810	29000	12500	40100		

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
SUB (ASB)				
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Test Completion Dates

Lab Sample No(s)	9838223	9838237	9838243	9826397	9826112	9826342	9826463	9838225	9838227	9826304
Customer Sample Ref.	IP 508	IP 508	IP 508	IP 509	IP 511	IP 511	IP 512	IP 513	IP 513	IP 514
AGS Ref.										
Depth	1.50	0.50	0.80	0.50	0.10	0.40	0.20	0.50	0.80	0.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		01-Sep-2014	01-Sep-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014	01-Sep-2014	01-Sep-2014	28-Aug-2014
EPH CWG (Aliphatic) GC (S)	04-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	04-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	02-Sep-2014	02-Sep-2014	30-Aug-2014
Metals in solid samples by OES	27-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	28-Aug-2014	28-Aug-2014	01-Sep-2014	29-Aug-2014	01-Sep-2014	28-Aug-2014
PAH by GCMS	03-Sep-2014	03-Sep-2014	04-Sep-2014	31-Aug-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	04-Sep-2014	04-Sep-2014	04-Sep-2014
pH	03-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014
Sample description	21-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	23-Aug-2014	23-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	23-Aug-2014
Total Organic Carbon		01-Sep-2014			28-Aug-2014					
TPH CWG GC (S)	04-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826325	9826331	9826336	9838231	9838233	9838236	9838226	9838230	9826204	9826252
Customer Sample Ref.	IP 514	IP 514	IP 514	IP 538	IP 538	IP 538	IP 544	IP 544	IP 546	IP 546
AGS Ref.										
Depth	0.50	1.00	1.50	0.20	0.50	1.50	1.60	0.20	0.20	2.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014	28-Aug-2014		01-Sep-2014	01-Sep-2014			01-Sep-2014	28-Aug-2014	
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	02-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	02-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	28-Aug-2014	29-Aug-2014	03-Sep-2014	01-Sep-2014	01-Sep-2014	28-Aug-2014	27-Aug-2014	01-Sep-2014	29-Aug-2014	27-Aug-2014
PAH by GCMS	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	04-Sep-2014	04-Sep-2014	02-Sep-2014	03-Sep-2014
pH	01-Sep-2014	01-Sep-2014	30-Aug-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014
Sample description	23-Aug-2014	23-Aug-2014	21-Aug-2014	27-Aug-2014	27-Aug-2014	21-Aug-2014	21-Aug-2014	27-Aug-2014	27-Aug-2014	21-Aug-2014
TPH CWG GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	03-Sep-2014	04-Sep-2014	04-Sep-2014	02-Sep-2014	02-Sep-2014

Lab Sample No(s)	9826346	9826352	9826357	9826362	9826368	9826373	9826379	9826385	9826392	9826402
Customer Sample Ref.	IP 571	IP 571	IP 571	IP 584	IP 585	IP 585	IP 615	IP 615	IP 615	IP 633
AGS Ref.										
Depth	0.50	1.50	2.50	0.50	1.00	2.00	0.50	1.50	2.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014			28-Aug-2014	28-Aug-2014		28-Aug-2014			28-Aug-2014
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	30-Aug-2014	31-Aug-2014	02-Sep-2014	27-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	28-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	01-Sep-2014	27-Aug-2014	27-Aug-2014	01-Sep-2014
PAH by GCMS	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014
pH	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	21-Aug-2014	21-Aug-2014	21-Aug-2014	27-Aug-2014	27-Aug-2014	21-Aug-2014	27-Aug-2014	21-Aug-2014	21-Aug-2014	27-Aug-2014
Total Organic Carbon		28-Aug-2014								01-Sep-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014

Lab Sample No(s)	9826408	9826413	9826418	9826425	9826430	9826435	9826441	9826449	9826454	9826469
Customer Sample Ref.	IP 633	IP 633	IP 634	IP 634	IP 634	IP 661	IP 661	IP 690	IP 690	IP 690
AGS Ref.										
Depth	1.50	2.50	0.50	1.50	2.50	0.50	2.00	0.50	1.30	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*			28-Aug-2014			28-Aug-2014		28-Aug-2014		
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	31-Aug-2014	31-Aug-2014	30-Aug-2014	26-Aug-2014	02-Sep-2014	30-Aug-2014	29-Aug-2014	31-Aug-2014	02-Sep-2014	22-Aug-2014
Metals in solid samples by OES	27-Aug-2014	27-Aug-2014	01-Sep-2014	27-Aug-2014	27-Aug-2014	01-Sep-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014
pH	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	30-Aug-2014	02-Sep-2014
Sample description	21-Aug-2014	21-Aug-2014	27-Aug-2014	21-Aug-2014	21-Aug-2014	27-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014
TPH CWG GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

Lab Sample No(s)	9826473	9826478	9826482	9826486	9826208	9826212	9826216	9826318	9826221	9826225
Customer Sample Ref.	IP 690	IP 713	IP 713	IP 713	IP 719	IP 719	IP 719	IP 726	IP 729	IP 729
AGS Ref.										
Depth	2.50	0.50	0.70	1.50	0.50	1.50	2.50	0.50	0.50	1.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014	28-Aug-2014		28-Aug-2014			28-Aug-2014	28-Aug-2014	28-Aug-2014
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	31-Aug-2014	02-Sep-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	31-Aug-2014
Metals in solid samples by OES	27-Aug-2014	01-Sep-2014	02-Sep-2014	27-Aug-2014	02-Sep-2014	28-Aug-2014	27-Aug-2014	28-Aug-2014	02-Sep-2014	02-Sep-2014
PAH by GCMS	03-Sep-2014	03-Sep-2014	04-Sep-2014	03-Sep-2014	03-Sep-2014	30-Aug-2014	02-Sep-2014	31-Aug-2014	03-Sep-2014	04-Sep-2014
pH	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	21-Aug-2014	27-Aug-2014	27-Aug-2014	21-Aug-2014	28-Aug-2014	20-Aug-2014	21-Aug-2014	23-Aug-2014	28-Aug-2014	28-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826230	9826236	9826240	9826244	9826195	9826200	9826248	9826257	9826261	9826266
Customer Sample Ref.	IP 729	IP 729	IP 729	IP 729	IP 730	IP 730	IP 731	IP 731	IP 731	IP 731
AGS Ref.										
Depth	1.50	2.00	3.00	4.00	0.50	1.50	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*					28-Aug-2014		28-Aug-2014			
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	02-Sep-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014	30-Aug-2014
Metals in solid samples by OES	28-Aug-2014	27-Aug-2014	28-Aug-2014	28-Aug-2014	29-Aug-2014	27-Aug-2014	02-Sep-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014
PAH by GCMS	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
pH	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	20-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	23-Aug-2014	21-Aug-2014	28-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014
TPH CWG GC (S)	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014

Lab Sample No(s)	9826179	9826183	9826187	9826191	9826300	9826308	9826312	9826149	9826153	9826157
Customer Sample Ref.	IP 732	IP 732	IP 732	IP 732	IP 733	IP 733	IP 733	IP 742	IP 742	IP 742
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	0.50	1.50	2.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014				28-Aug-2014			28-Aug-2014		
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	31-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	31-Aug-2014
Metals in solid samples by OES	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	31-Aug-2014	02-Sep-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014
pH	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014
Sample description	27-Aug-2014	21-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014
TPH CWG GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826163	9826271	9826275	9826280	9826132	9826136	9826141	9826145	9826117	9826121
Customer Sample Ref.	IP 742	IP 747	IP 747	IP 747	IP 781	IP 781	IP 781	IP 781	IP 782	IP 782
AGS Ref.										
Depth	3.50	0.50	1.50	2.50	0.50	1.50	2.50	3.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014			28-Aug-2014					
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	03-Sep-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	27-Aug-2014	31-Aug-2014	02-Sep-2014	30-Aug-2014	26-Aug-2014
Metals in solid samples by OES	29-Aug-2014	01-Sep-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	03-Sep-2014	31-Aug-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014
pH	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014
Sample description	21-Aug-2014	27-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014	21-Aug-2014	20-Aug-2014	20-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

Lab Sample No(s)	9826127	9826760	9826738	9826743	9826748	9826752	9826756	9826717	9826721	9826726
Customer Sample Ref.	IP 782	IP 782	IP 783	IP 783	IP 783	IP 783	IP 783	IP 784	IP 784	IP 784
AGS Ref.										
Depth	3.70	0.50	0.40	1.50	2.50	3.50	4.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014	28-Aug-2014					28-Aug-2014		
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	29-Aug-2014	30-Aug-2014	31-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014
Metals in solid samples by OES	27-Aug-2014	28-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
pH	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	30-Aug-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014
Sample description	21-Aug-2014	23-Aug-2014	23-Aug-2014	20-Aug-2014	20-Aug-2014	21-Aug-2014	20-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014
TPH CWG GC (S)	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014

Lab Sample No(s)	9826730	9826734	9826691	9826696	9826701	9826708	9826713	9826671	9826676	9826682
Customer Sample Ref.	IP 784	IP 784	IP 785	IP 785	IP 785	IP 785	IP 785	IP 786	IP 786	IP 786
AGS Ref.										
Depth	3.50	4.50	0.50	1.50	2.50	3.50	4.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*			28-Aug-2014					28-Aug-2014		
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	27-Aug-2014	27-Aug-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014	03-Sep-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	03-Sep-2014	03-Sep-2014	02-Sep-2014	31-Aug-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	31-Aug-2014	02-Sep-2014
pH	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014
TPH CWG GC (S)	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826686	9826167	9826171	9826175	9826285	9826291	9826296	9826558	9826563	9826572
Customer Sample Ref.	IP 786	IP 788	IP 788	IP 788	IP 790	IP 790	IP 790	IP 1306	IP 1306	IP 1306
AGS Ref.										
Depth	3.50	0.50	1.50	2.50	0.20	0.80	1.80	0.20	0.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014			28-Aug-2014	28-Aug-2014		28-Aug-2014	28-Aug-2014	
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	31-Aug-2014	30-Aug-2014	31-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014
Metals in solid samples by OES	28-Aug-2014	01-Sep-2014	27-Aug-2014	27-Aug-2014	02-Sep-2014	01-Sep-2014	27-Aug-2014	01-Sep-2014	01-Sep-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	03-Sep-2014	31-Aug-2014	31-Aug-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	30-Aug-2014
pH	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014
Sample description	21-Aug-2014	27-Aug-2014	20-Aug-2014	21-Aug-2014	29-Aug-2014	27-Aug-2014	21-Aug-2014	27-Aug-2014	27-Aug-2014	20-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826605	9826610	9826523	9826527	9826531	9826535	9826542	9826494	9826498	9826502
Customer Sample Ref.	IP 1354	IP 1354	IP 1760	IP 1760	IP 1938	IP 1938	IP 1938	IP 2501	IP 2501	IP 2501
AGS Ref.										
Depth	0.50	1.30	0.20	1.00	0.30	1.00	1.60	0.20	0.40	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014		29-Aug-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014		28-Aug-2014	28-Aug-2014	
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	31-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	28-Aug-2014	28-Aug-2014	28-Aug-2014	28-Aug-2014	29-Aug-2014	28-Aug-2014	27-Aug-2014	29-Aug-2014	28-Aug-2014	27-Aug-2014
PAH by GCMS	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	04-Sep-2014	02-Sep-2014
pH	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014
Sample description	23-Aug-2014	21-Aug-2014	22-Aug-2014	22-Aug-2014	23-Aug-2014	22-Aug-2014	20-Aug-2014	23-Aug-2014	23-Aug-2014	20-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014

CERTIFICATE OF ANALYSIS

SDG: 140818-45 **Location:** Coed Darcy **Order Number:** CD0788
Job: H_ATKINS_LDC-224 **Customer:** Atkins Global Ltd **Report Number:** 295498
Client Reference: Site Wide Trial Pitting **Attention:** Jack Lowrie **Superseded Report:** 282899

Lab Sample No(s)	9826548	9826553	9826576	9826580	9826584	9826589	9826597	9826601	9826614	9826618
Customer Sample Ref.	IP 3039	IP 3039	IP 3095	IP 3095	IP 3095	IP 3105	IP 3105	IP 3105	IP 3163	IP 3163
AGS Ref.										
Depth	0.50	1.40	0.50	1.50	2.50	0.30	1.50	2.70	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014		28-Aug-2014			28-Aug-2014			28-Aug-2014	
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014
Metals in solid samples by OES	29-Aug-2014	27-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014
PAH by GCMS	03-Sep-2014	02-Sep-2014	03-Sep-2014	30-Aug-2014	30-Aug-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014
pH	01-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	02-Sep-2014	01-Sep-2014	30-Aug-2014
Sample description	22-Aug-2014	20-Aug-2014	27-Aug-2014	20-Aug-2014	20-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014

Lab Sample No(s)	9826627	9826632	9826636	9826641	9826646	9826650	9826654	9826659	9826667	9826506
Customer Sample Ref.	IP 3163	IP 3163	IP 3163	IP 3164	IP 3164	IP 3164	IP 3164	IP 3164	IP 3164	TPE 910
AGS Ref.										
Depth	2.50	3.50	4.50	0.50	1.50	2.50	3.50	4.50	5.50	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*				28-Aug-2014						28-Aug-2014
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	31-Aug-2014	31-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	27-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014
PAH by GCMS	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	27-Aug-2014	27-Aug-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014
pH	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	21-Aug-2014	21-Aug-2014	21-Aug-2014	23-Aug-2014	21-Aug-2014	21-Aug-2014	21-Aug-2014	20-Aug-2014	21-Aug-2014	22-Aug-2014
TPH CWG GC (S)	02-Sep-2014	03-Sep-2014	02-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	03-Sep-2014	02-Sep-2014	02-Sep-2014	03-Sep-2014

Lab Sample No(s)	9826510	9826514
Customer Sample Ref.	TPE 910	TPE 910
AGS Ref.		
Depth	1.00	2.00
Type	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014	
EPH CWG (Aliphatic) GC (S)	03-Sep-2014	02-Sep-2014
EPH CWG (Aromatic) GC (S)	03-Sep-2014	02-Sep-2014
GRO by GC-FID (S)	31-Aug-2014	31-Aug-2014
Metals in solid samples by OES	28-Aug-2014	28-Aug-2014
PAH by GCMS	03-Sep-2014	02-Sep-2014
pH	01-Sep-2014	30-Aug-2014
Sample description	23-Aug-2014	20-Aug-2014
TPH CWG GC (S)	03-Sep-2014	02-Sep-2014

Derwentside Environmental Testing Services

Certificate of Analysis

Certificate Number 14-13670

27-Aug-14

Client	Alcontrol Laboratories Units 7 & 8 Hawarden Business Park Manor Road Hawarden Deeside CH5 3US
Our Reference	14-13670
Client Reference	140818-45
Contract Title	140818-45
Description	53 Soil samples.
Date Received	21-Aug-14
Date Started	21-Aug-14
Date Completed	27-Aug-14
Test Procedures	Asbestos Analysis DETSC 1101.
Notes	Opinions and interpretations are outside the scope of UKAS accreditation. 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. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Rob Brown
Business Manager

UKAS TESTING
2139

Summary of Asbestos Analysis
Soil Samples

Our Ref 14-13670
Client Ref 140818-45
Contract Title 140818-45

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
688777	9836948	SOIL	NAD	none	Andrew Little
688778	9836958	SOIL	NAD	none	Andrew Little
688779	9837263	SOIL	NAD	none	Andrew Little
688780	9836920	SOIL	NAD	none	Andrew Little
688781	9836870	SOIL	NAD	none	Andrew Little
688782	9836860	SOIL	NAD	none	Andrew Little
688783	9836859	SOIL	NAD	none	Andrew Little
688784	9836878	SOIL	NAD	none	Andrew Little
688785	9836899	SOIL	NAD	none	Andrew Little
688786	9836850	SOIL	NAD	none	Andrew Little
688787	9836936	SOIL	NAD	none	Andrew Little
688788	9837267	SOIL	NAD	none	Andrew Little
688789	9835422	SOIL	NAD	none	Andrew Little
688790	9835420	SOIL	NAD	none	Andrew Little
688791	9835654	SOIL	NAD	none	Andrew Little
688792	9835664	SOIL	NAD	none	Andrew Little
688793	9836746	SOIL	NAD	none	Andrew Little
688794	9835877	SOIL	NAD	none	Andrew Little
688795	9836758	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688796	9836751	SOIL	NAD	none	Andrew Little
688797	9836762	SOIL	NAD	none	Andrew Little
688798	9835689	SOIL	NAD	none	Andrew Little
688799	9836794	SOIL	NAD	none	Andrew Little
688800	9837500	SOIL	NAD	none	Andrew Little
688801	9836802	SOIL	NAD	none	Andrew Little
688802	9837497	SOIL	NAD	none	Andrew Little
688803	9836979	SOIL	NAD	none	Andrew Little
688804	9836985	SOIL	NAD	none	Andrew Little
688805	9835601	SOIL	NAD	none	Andrew Little
688806	9835963	SOIL	NAD	none	Andrew Little
688807	9835621	SOIL	NAD	none	Andrew Little
688808	9835608	SOIL	NAD	none	Andrew Little
688809	9836818	SOIL	NAD	none	Andrew Little
688810	9835987	SOIL	NAD	none	Andrew Little
688811	9835568	SOIL	NAD	none	Andrew Little
688812	9835561	SOIL	NAD	none	Andrew Little
688813	9835508	SOIL	NAD	none	Andrew Little
688814	9835583	SOIL	NAD	none	Andrew Little
688815	9835513	SOIL	NAD	none	Andrew Little
688816	9836045	SOIL	NAD	none	Andrew Little
688817	9835636	SOIL	NAD	none	Andrew Little
688818	9836065	SOIL	NAD	none	Andrew Little
688819	9835485	SOIL	NAD	none	Andrew Little
688820	9835476	SOIL	NAD	none	Andrew Little
688821	9835908	SOIL	NAD	none	Andrew Little
688822	9835923	SOIL	NAD	none	Andrew Little
688823	9835973	SOIL	NAD	none	Andrew Little

Summary of Asbestos Analysis
Soil Samples

Our Ref 14-13670
Client Ref 140818-45
Contract Title 140818-45

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
688824	9836782	SOIL	NAD	none	Andrew Little
688825	9835501	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688826	9836765	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688827	9835997	SOIL	NAD	none	Andrew Little
688828	9836873	SOIL	NAD	none	Andrew Little
688829	9836874	SOIL	NAD	none	Andrew Little

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 14-13670
Client Ref 140818-45
Contract 140818-45

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
688777	9836948 SOIL		PT 1L (1kg)		
688778	9836958 SOIL		PT 1L (1kg)		
688779	9837263 SOIL		PT 1L (1kg)		
688780	9836920 SOIL		PT 1L (1kg)		
688781	9836870 SOIL		PT 1L (1kg)		
688782	9836860 SOIL		PT 1L (1kg)		
688783	9836859 SOIL		PT 1L (1kg)		
688784	9836878 SOIL		PT 1L (1kg)		
688785	9836899 SOIL		PT 1L (1kg)		
688786	9836850 SOIL		PT 1L (1kg)		
688787	9836936 SOIL		PT 1L (1kg)		
688788	9837267 SOIL		PT 1L (1kg)		
688789	9835422 SOIL		PT 1L (1kg)		
688790	9835420 SOIL		PT 1L (1kg)		
688791	9835654 SOIL		PT 1L (1kg)		
688792	9835664 SOIL		PT 1L (1kg)		
688793	9836746 SOIL		PT 1L (1kg)		
688794	9835877 SOIL		PT 1L (1kg)		
688795	9836758 SOIL		PT 1L (1kg)		
688796	9836751 SOIL		PT 1L (1kg)		
688797	9836762 SOIL		PT 1L (1kg)		
688798	9835689 SOIL		PT 1L (1kg)		
688799	9836794 SOIL		PT 1L (1kg)		
688800	9837500 SOIL		PT 1L (1kg)		
688801	9836802 SOIL		PT 1L (1kg)		
688802	9837497 SOIL		PT 1L (1kg)		
688803	9836979 SOIL		PT 1L (1kg)		
688804	9836985 SOIL		PT 1L (1kg)		
688805	9835601 SOIL		PT 1L (1kg)		
688806	9835963 SOIL		PT 1L (1kg)		
688807	9835621 SOIL		PT 1L (1kg)		
688808	9835608 SOIL		PT 1L (1kg)		
688809	9836818 SOIL		PT 1L (1kg)		
688810	9835987 SOIL		PT 1L (1kg)		
688811	9835568 SOIL		PT 1L (1kg)		
688812	9835561 SOIL		PT 1L (1kg)		
688813	9835508 SOIL		PT 1L (1kg)		
688814	9835583 SOIL		PT 1L (1kg)		
688815	9835513 SOIL		PT 1L (1kg)		
688816	9836045 SOIL		PT 1L (1kg)		
688817	9835636 SOIL		PT 1L (1kg)		
688818	9836065 SOIL		PT 1L (1kg)		
688819	9835485 SOIL		PT 1L (1kg)		
688820	9835476 SOIL		PT 1L (1kg)		
688821	9835908 SOIL		PT 1L (1kg)		
688822	9835923 SOIL		PT 1L (1kg)		
688823	9835973 SOIL		PT 1L (1kg)		
688824	9836782 SOIL		PT 1L (1kg)		
688825	9835501 SOIL		PT 1L (1kg)		

Information in Support of the Analytical Results

Our Ref 14-13670
Client Ref 140818-45
Contract 140818-45

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
688826	9836765 SOIL		PT 1L (1kg)		
688827	9835997 SOIL		PT 1L (1kg)		
688828	9836873 SOIL		PT 1L (1kg)		
688829	9836874 SOIL		PT 1L (1kg)		

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Derwentside Environmental Testing Services

Certificate of Analysis

Certificate Number 14-13931

28-Aug-14

Client	Alcontrol Laboratories Units 7 & 8 Hawarden Business Park Manor Road Hawarden Deeside CH5 3US
Our Reference	14-13931
Client Reference	140818-45
Contract Title	140818-45
Description	7 Soil samples.
Date Received	26-Aug-14
Date Started	27-Aug-14
Date Completed	28-Aug-14
Test Procedures	Asbestos Analysis DETSC 1101.
Notes	Opinions and interpretations are outside the scope of UKAS accreditation. 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. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Rob Brown
Business Manager

UKAS TESTING
2139

Summary of Asbestos Analysis
Soil Samples

Our Ref 14-13931
Client Ref 140818-45
Contract Title 140818-45

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
690393	9846010 IP508 0.50	SOIL	NAD	none	D Wilkinson
690394	9846027 IP508 0.80	SOIL	NAD	none	D Wilkinson
690395	9845984 IP513 0.50	SOIL	NAD	none	D Wilkinson
690396	9845966 IP513 0.80	SOIL	NAD	none	D Wilkinson
690397	9845961 IP538 0.20	SOIL	NAD	none	D Wilkinson
690398	9845965 IP538 0.50	SOIL	NAD	none	D Wilkinson
690399	9845980 IP544 0.20	SOIL	NAD	none	D Wilkinson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * - not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 14-13931
Client Ref 140818-45
Contract 140818-45

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
690393	9846010 0.50 SOIL		PT 1L (1kg)		
690394	9846027 0.80 SOIL		PT 1L (1kg)		
690395	9845984 0.50 SOIL		PT 1L (1kg)		
690396	9845966 0.80 SOIL		PT 1L (1kg)		
690397	9845961 0.20 SOIL		PT 1L (1kg)		
690398	9845965 0.50 SOIL		PT 1L (1kg)		
690399	9845980 0.20 SOIL		PT 1L (1kg)		

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

SDG:	140818-45	**Location:**	Coed Darcy	**Order Number:**	CD0788
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	295498
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282899

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors
employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before presevation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date:	12 September 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	140817-4
Your Reference:	Site Wide Trial Pitting
Location:	Coed Darcy
Report No:	283884

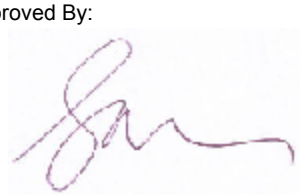
This report has been revised and directly supersedes 282574 in its entirety.

We received 90 samples on Sunday August 17, 2014 and 90 of these samples were scheduled for analysis which was completed on Friday September 12, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:



Sonia McWhan

Operations Manager

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9820553	IP575		0.50	14/08/2014
9820557	IP575		1.20	14/08/2014
9820561	IP575		2.50	14/08/2014
9820565	IP575		3.50	14/08/2014
9820577	IP611		0.10	14/08/2014
9820621	IP611		0.40	14/08/2014
9820535	IP619		0.50	14/08/2014
9820541	IP619		1.50	14/08/2014
9820545	IP619		2.50	14/08/2014
9820549	IP619		3.50	14/08/2014
9820495	IP622		0.50	14/08/2014
9820500	IP623		0.50	14/08/2014
9820504	IP623		1.50	14/08/2014
9820508	IP623		2.50	14/08/2014
9820512	IP623		3.50	14/08/2014
9820516	IP624		0.50	14/08/2014
9820520	IP624		1.50	14/08/2014
9820524	IP624		2.50	14/08/2014
9820528	IP624		3.50	14/08/2014
9820752	IP636		0.50	14/08/2014
9820532	IP637		0.20	14/08/2014
9820442	IP638		0.30	14/08/2014
9820486	IP638		4.40	14/08/2014
9820397	IP657		0.10	14/08/2014
9820613	IP659		0.50	14/08/2014
9820617	IP659		1.50	14/08/2014
9820625	IP659		2.50	14/08/2014
9820470	IP665		0.50	14/08/2014
9820474	IP665		1.50	14/08/2014
9820478	IP665		2.50	14/08/2014
9820482	IP665		3.50	14/08/2014
9820491	IP665		4.50	14/08/2014
9820454	IP666		0.50	14/08/2014
9820458	IP666		1.50	14/08/2014
9820462	IP666		2.50	14/08/2014
9820466	IP666		3.50	14/08/2014
9820433	IP667		0.50	14/08/2014
9820438	IP667		1.50	14/08/2014
9820446	IP667		2.50	14/08/2014
9820450	IP667		3.50	14/08/2014
9820417	IP668		0.50	14/08/2014
9820421	IP668		1.50	14/08/2014
9820425	IP668		2.50	14/08/2014
9820429	IP668		3.50	14/08/2014
9820401	IP669		0.50	14/08/2014
9820405	IP669		1.50	14/08/2014
9820409	IP669		2.50	14/08/2014
9820413	IP669		3.50	14/08/2014
9820641	IP689		0.20	14/08/2014
9820645	IP689		0.80	14/08/2014
9820649	IP689		2.50	14/08/2014
9820629	IP691		0.50	14/08/2014
9820633	IP691		1.50	14/08/2014
9820637	IP691		2.50	14/08/2014
9820665	IP692		0.20	14/08/2014
9820709	IP692		3.60	14/08/2014

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

9820585	IP725	0.50	14/08/2014
9820589	IP725	1.50	14/08/2014
9820593	IP725	2.50	14/08/2014
9820609	IP727	0.50	14/08/2014
9820597	IP734	0.50	14/08/2014
9820601	IP734	1.30	14/08/2014
9820605	IP734	2.30	14/08/2014
9820569	IP791	0.50	14/08/2014
9820573	IP791	0.90	14/08/2014
9820581	IP791	1.90	14/08/2014
9820725	IP1307	0.30	14/08/2014
9820729	IP1307	1.00	14/08/2014
9820733	IP1307	3.50	14/08/2014
9820737	IP1307	4.50	14/08/2014
9820653	IP3153	0.30	14/08/2014
9820657	IP3153	1.30	14/08/2014
9820661	IP3153	2.50	14/08/2014
9820669	IP3153	3.50	14/08/2014
9820673	IP3153	4.50	14/08/2014
9820677	IP3153	6.00	14/08/2014
9820681	IP3167	0.30	14/08/2014
9820685	IP3167	1.30	14/08/2014
9820689	IP3167	2.40	14/08/2014
9820693	IP3167	3.50	14/08/2014
9820697	IP3167	5.20	14/08/2014
9820701	IP3223	0.50	14/08/2014
9820705	IP3223	1.00	14/08/2014
9820713	IP3223	2.50	14/08/2014
9820717	IP3223	3.50	14/08/2014
9820721	IP3223	4.50	14/08/2014
9820741	IP3315	0.30	14/08/2014
9820744	IP3315	1.50	14/08/2014
9820748	IP3315	2.50	14/08/2014
9820756	IP3315	3.50	14/08/2014

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			9820553			9820557			9820561			9820565			9820577			9820621			9820535		9820541			9820545		9820549		9820495			9820500			9820504			9820508			9820512
Customer Sample Reference			IP575			IP575			IP575			IP575			IP611			IP611			IP619		IP619			IP619		IP619		IP622			IP623			IP623			IP623			IP623
AGS Reference																																											
Depth (m)			0.50			1.20			2.50			3.50			0.10			0.40			0.50		1.50			2.50		3.50		0.50			0.50			1.50			2.50			3.50
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33		X												X			X		X										X			X								
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																	X																							
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X		X			X		X		X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89	X			X			X			X			X			X			X		X			X		X		X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90			X			X			X			X			X			X		X			X	X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X		X			X		X		X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X		X			X		X		X			X			X			X			X
pH	All	NDPs: 0 Tests: 90		X			X			X			X			X			X		X			X			X	X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 89				X			X			X			X			X			X		X			X		X		X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 9																																					X			
TPH CWG GC (S)	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X		X			X		X		X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			9820512	IP623		3.50	400g Tub (ALE214)
			9820516	IP624		0.50	60g VOC (ALE215)
			9820520	IP624		1.50	250g Amber Jar (AL
			9820524	IP624		2.50	400g Tub (ALE214)
			9820528	IP624		3.50	60g VOC (ALE215)
			9820752	IP636		0.50	250g Amber Jar (AL
			9820532	IP637		0.20	400g Tub (ALE214)
			9820442	IP638		0.30	60g VOC (ALE215)
			9820486	IP638		4.40	250g Amber Jar (AL
			9820397	IP657		0.10	400g Tub (ALE214)
			9820613	IP659		0.50	60g VOC (ALE215)
			9820617	IP659		1.50	250g Amber Jar (AL
			9820625	IP659		2.50	400g Tub (ALE214)
			9820470	IP665		0.50	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33					400g Tub (ALE214)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90					250g Amber Jar (AL
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89					400g Tub (ALE214)
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90					60g VOC (ALE215)
Metals in solid samples by OES	All	NDPs: 0 Tests: 90					250g Amber Jar (AL
PAH by GCMS	All	NDPs: 0 Tests: 90					400g Tub (ALE214)
pH	All	NDPs: 0 Tests: 90					60g VOC (ALE215)
Sample description	All	NDPs: 0 Tests: 89					250g Amber Jar (AL
Total Organic Carbon	All	NDPs: 0 Tests: 9					400g Tub (ALE214)
TPH CWG GC (S)	All	NDPs: 0 Tests: 90					60g VOC (ALE215)

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)			9820474		9820478			9820482			9820491			9820454			9820458		9820462			9820466			9820433			9820438			9820446			9820450			9820417			9820421		
Customer Sample Reference			IP665		IP665			IP665			IP665			IP666			IP666		IP666			IP666			IP667			IP667			IP667			IP667			IP668			IP668		
AGS Reference																																										
Depth (m)			1.50		2.50			3.50			4.50			0.50			1.50		2.50			3.50			0.50			1.50			2.50			3.50			0.50			1.50		
Container			250g Amber Jar (AL	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33													X										X												X				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90	X		X			X			X			X			X		X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89	X		X						X			X			X		X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90		X			X			X			X			X		X			X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 90	X		X			X			X			X			X		X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 90	X		X			X			X			X			X		X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 90	X			X			X			X			X		X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 89	X		X			X			X			X			X		X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 9												X													X														
TPH CWG GC (S)	All	NDPs: 0 Tests: 90	X		X			X			X			X			X		X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

X — **Test**

N — **No Determination Possible**

Lab Sample No(s)			9820425			9820429			9820401			9820405			9820409			9820413			9820641			9820645			9820649			9820629			9820633			9820637			9820665			9820709
Customer Sample Reference			IP668			IP668			IP669			IP669			IP669			IP669			IP689			IP689			IP689			IP691			IP691			IP691			IP692			IP692
AGS Reference																																											
Depth (m)			2.50			3.50			0.50			1.50			2.50			3.50			0.20			0.80			2.50			0.50			1.50			2.50			0.20			3.60
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33								X													X			X						X									X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																																							X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 89	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 9										X																													
TPH CWG GC (S)	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

X Test

N No Determination Possible

	Lab Sample No(s)		9820709		9820585			9820589			9820593			9820609			9820597			9820601			9820605			9820569			9820573			9820581			9820725			9820729			9820733	
	Customer Sample Reference		IP692		IP725			IP725			IP725			IP727			IP734			IP734			IP734			IP791			IP791			IP791			IP1307			IP1307			IP1307	
	AGS Reference																																										
	Depth (m)		3.60		0.50			1.50			2.50			0.50			0.50			1.30			2.30			0.50			0.90			1.90			0.30			1.00			3.50	
	Container		400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33				X									X			X									X			X						X			X			
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																																		X						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90			X			X			X			X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 90			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 90			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 89			X			X			X			X			X			X			X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 9																													X											
TPH CWG GC (S)	All	NDPs: 0 Tests: 90			X			X			X			X			X			X			X			X			X			X			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)			9820733			9820737			9820653			9820657			9820661			9820669			9820673		9820677			9820681			9820685			9820689			9820693			9820697			9820701	9820705
Customer Sample Reference			IP1307			IP1307			IP3153			IP3153			IP3153			IP3153			IP3153		IP3153			IP3167			IP3167			IP3167			IP3167			IP3167			IP3223	IP3223
AGS Reference																																										
Depth (m)			3.50			4.50			0.30			1.30			2.50			3.50			4.50		6.00			0.30			1.30			2.40			3.50			5.20			0.50	1.00
Container			60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33						X																	X															X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																							X																	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X		X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89		X			X			X			X			X			X			X		X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90	X			X			X			X			X			X			X		X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X		X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X		X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 90			X			X			X			X			X			X		X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 89		X			X			X			X			X			X			X		X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 9																				X																				X
TPH CWG GC (S)	All	NDPs: 0 Tests: 90		X			X			X			X			X			X			X		X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			9820705	IP3223		1.00	400g Tub (ALE214)
			9820705	IP3223		1.00	60g VOC (ALE215)
			9820713	IP3223		2.50	250g Amber Jar (AL
			9820713	IP3223		2.50	400g Tub (ALE214)
			9820713	IP3223		2.50	60g VOC (ALE215)
			9820717	IP3223		3.50	250g Amber Jar (AL
			9820717	IP3223		3.50	400g Tub (ALE214)
			9820717	IP3223		3.50	60g VOC (ALE215)
			9820721	IP3223		4.50	250g Amber Jar (AL
			9820721	IP3223		4.50	400g Tub (ALE214)
			9820721	IP3223		4.50	60g VOC (ALE215)
			9820741	IP3315		0.30	400g Tub (ALE214)
			9820741	IP3315		0.30	60g VOC (ALE215)
			9820744	IP3315		1.50	250g Amber Jar (AL
			9820744	IP3315		1.50	400g Tub (ALE214)
			9820744	IP3315		1.50	60g VOC (ALE215)
			9820748	IP3315		2.50	250g Amber Jar (AL
			9820748	IP3315		2.50	400g Tub (ALE214)
			9820748	IP3315		2.50	60g VOC (ALE215)
			9820756	IP3315		3.50	250g Amber Jar (AL
			9820756	IP3315		3.50	400g Tub (ALE214)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 33	X				X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 90		X		X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 89		X		X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 90	X		X		X
Metals in solid samples by OES	All	NDPs: 0 Tests: 90		X		X	X
PAH by GCMS	All	NDPs: 0 Tests: 90		X		X	X
pH	All	NDPs: 0 Tests: 90	X		X		X
Sample description	All	NDPs: 0 Tests: 89		X		X	X
Total Organic Carbon	All	NDPs: 0 Tests: 9					X
TPH CWG GC (S)	All	NDPs: 0 Tests: 90		X		X	X

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9820553	IP575	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Crushed Brick
9820557	IP575	1.20	Dark Brown	Loamy Sand	0.1 - 2 mm	None	None
9820561	IP575	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9820565	IP575	3.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9820577	IP611	0.10	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820621	IP611	0.40	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820535	IP619	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820541	IP619	1.50	Dark Brown	Clay Loam	0.063 - 0.1 mm	Vegetation	None
9820545	IP619	2.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9820549	IP619	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
9820495	IP622	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820500	IP623	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9820504	IP623	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9820508	IP623	2.50	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	Stones
9820512	IP623	3.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9820516	IP624	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9820520	IP624	1.50	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	None
9820524	IP624	2.50	Dark Brown	Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	Stones
9820528	IP624	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9820752	IP636	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9820532	IP637	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820442	IP638	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820486	IP638	4.40	Dark Brown	Loamy Sand	0.1 - 2 mm	None	None
9820397	IP657	0.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820613	IP659	0.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Concrete/Aggregate
9820617	IP659	1.50	Dark Brown	Silt Loam	0.063 - 0.1 mm	None	None
9820625	IP659	2.50	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9820470	IP665	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9820474	IP665	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9820478	IP665	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820482	IP665	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820491	IP665	4.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9820454	IP666	0.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
9820458	IP666	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9820462	IP666	2.50	Grey	Sandy Loam	0.1 - 2 mm	Stones	None
9820466	IP666	3.50	Black	Silty Sand	0.1 - 2 mm	Stones	None
9820433	IP667	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9820438	IP667	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

			Colour	Description	Grain size	Inclusions	Inclusions 2
9820446	IP667	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820450	IP667	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820417	IP668	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	None	None
9820421	IP668	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820425	IP668	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820429	IP668	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9820401	IP669	0.50	Beige	Sandy Loam	0.1 - 2 mm	None	None
9820405	IP669	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820409	IP669	2.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9820413	IP669	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820641	IP689	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820645	IP689	0.80	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
9820649	IP689	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9820629	IP691	0.50	Black	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9820633	IP691	1.50	Light Brown	Silt Loam	0.063 - 0.1 mm	None	None
9820637	IP691	2.50	Dark Brown	Stone/Soil	2 - 10 mm	Stones	None
9820665	IP692	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820709	IP692	3.60	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820585	IP725	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9820589	IP725	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820593	IP725	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820609	IP727	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9820597	IP734	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820601	IP734	1.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9820605	IP734	2.30	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Vegetation	Stones
9820569	IP791	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820573	IP791	0.90	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9820581	IP791	1.90	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9820725	IP1307	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9820729	IP1307	1.00	Light Brown	Sand	0.1 - 2 mm	Stones	None
9820733	IP1307	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Fibres
9820737	IP1307	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820653	IP3153	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
9820657	IP3153	1.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820661	IP3153	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9820669	IP3153	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820673	IP3153	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820677	IP3153	6.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820681	IP3167	0.30	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Crushed Brick	Stones
9820685	IP3167	1.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9820689	IP3167	2.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

			Colour	Description	Grain size	Inclusions	Inclusions 2
9820693	IP3167	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820697	IP3167	5.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820701	IP3223	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820705	IP3223	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820713	IP3223	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9820717	IP3223	3.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
9820721	IP3223	4.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820741	IP3315	0.30	Light Brown	Clay Loam	0.063 - 0.1 mm	Stones	None
9820744	IP3315	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9820748	IP3315	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9820756	IP3315	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP575	IP575	IP575	IP575	IP611	IP611
			Depth (m)	0.50	1.20	2.50	3.50	0.10	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820553	9820557	9820561	9820565	9820577	9820621
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	14	12	11	12	8.5
Actinolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #				Not Detected #	Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
pH	1 pH Units	TM133		8.06 M	5.53 M	5.52 M	5.56 M	8.23 M	7.51 M
Arsenic	<0.6 mg/kg	TM181		58.5 M	10.2 M	6 M	4.8 M	35.3 M	16.1 M
Cadmium	<0.02 mg/kg	TM181		1.29 M	0.193 M	0.461 M	0.414 M	1.2 M	0.438 M
Chromium	<0.9 mg/kg	TM181		37.4 M	10.8 M	16.2 M	14.6 M	16.4 M	13.1 M
Copper	<1.4 mg/kg	TM181		79.8 M	19.5 M	16.2 M	11.4 M	114 M	20.3 M
Lead	<0.7 mg/kg	TM181		1380 M	33.1 M	26.4 M	19.1 M	136 M	24.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		41.3 M	24.8 M	40.5 M	37.2 M	30.6 M	28.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		29.5 #	13.9 #	19 #	14.6 #	20.4 #	14.3 #
Zinc	<1.9 mg/kg	TM181		1460 M	85.3 M	98.7 M	84.8 M	265 M	70 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

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tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP619	IP619	IP619	IP619	IP622	IP623
			Depth (m)	0.50	1.50	2.50	3.50	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820535	9820541	9820545	9820549	9820495	9820500
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		26	48	18	13	23	18
Actinolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #				Not Detected #	Not Detected #
pH	1 pH Units	TM133		5.61 M	4.87 M	6.16 M	5.67 M	7.66 M	6.24 M
Arsenic	<0.6 mg/kg	TM181		91.9 M	154 M	5.36 M	5.8 M	44.6 M	82.7 M
Cadmium	<0.02 mg/kg	TM181		3.44 M	2.49 M	0.511 M	0.35 M	0.523 M	3.19 M
Chromium	<0.9 mg/kg	TM181		13.7 M	13.4 M	14.7 M	11.3 M	11.7 M	24.7 M
Copper	<1.4 mg/kg	TM181		63.8 M	145 M	13.8 M	12.8 M	28.6 M	90.1 M
Lead	<0.7 mg/kg	TM181		49.4 M	173 M	15.8 M	19.7 M	67.4 M	308 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<1.4 M
Nickel	<0.2 mg/kg	TM181		31.3 M	28.3 M	26 M	22.3 M	25.4 M	60.9 M
Selenium	<1 mg/kg	TM181		<10 #	<1 #	<1 #	<1 #	<1 #	<10 #
Vanadium	<0.2 mg/kg	TM181		13.9 #	17.5 #	16.6 #	11.7 #	13.7 #	18.7 #
Zinc	<1.9 mg/kg	TM181		317 M	418 M	73.4 M	67.1 M	123 M	318 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP623	IP623	IP623	IP624	IP624	IP624
			Depth (m)	1.50	2.50	3.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820504	9820508	9820512	9820516	9820520	9820524
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	11	11	26	21	16
Actinolite*	-	SUB (ASB)					Not Detected #		
Amosite*	-	SUB (ASB)					Not Detected #		
Chrysotile*	-	SUB (ASB)					Not Detected #		
Crocidolite*	-	SUB (ASB)					Not Detected #		
Tremolite*	-	SUB (ASB)					Not Detected #		
Soil Organic Matter (SOM)	<0.35 %	TM132			2.57 #				
pH	1 pH Units	TM133		5.72 M	5.98 M	5.58 M	5.3 M	5.68 M	6.07 M
Arsenic	<0.6 mg/kg	TM181		21.7 M	6.94 M	7.99 M	49.7 M	88.1 M	22.9 M
Cadmium	<0.02 mg/kg	TM181		0.539 M	0.342 M	0.198 M	1.43 M	1.38 M	1.19 M
Chromium	<0.9 mg/kg	TM181		11.8 M	12.5 M	12 M	11.8 M	21.1 M	12.3 M
Copper	<1.4 mg/kg	TM181		22.9 M	14 M	14.9 M	83.3 M	56.9 M	23.5 M
Lead	<0.7 mg/kg	TM181		51.1 M	14.4 M	13.7 M	47.8 M	38.1 M	21.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		29 M	27.8 M	30.4 M	31.8 M	48.5 M	33 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<10 #	<10 #	<1 #
Vanadium	<0.2 mg/kg	TM181		14 #	13.6 #	15.1 #	13.6 #	22.4 #	12.6 #
Zinc	<1.9 mg/kg	TM181		82.9 M	66.8 M	72.5 M	110 M	175 M	82.2 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP624	IP636	IP637	IP638	IP638	IP657
			Depth (m)	3.50	0.50	0.20	0.30	4.40	0.10
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820528	9820752	9820532	9820442	9820486	9820397
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	19	20	11	19	15
Actinolite*	-	SUB (ASB)			Not Detected #	Not Detected #	Not Detected #		Not Detected #
Amosite*	-	SUB (ASB)			Not Detected #	Not Detected #	Not Detected #		Not Detected #
Chrysotile*	-	SUB (ASB)			Not Detected #	Not Detected #	Not Detected #		Not Detected #
Crocidolite*	-	SUB (ASB)			Not Detected #	Not Detected #	Not Detected #		Not Detected #
Tremolite*	-	SUB (ASB)			Not Detected #	Not Detected #	Not Detected #		Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132				4.88 #			
pH	1 pH Units	TM133		6.07 M	7.79 M	5.39 M	7.48 M	6.65 M	7.08 M
Arsenic	<0.6 mg/kg	TM181		24.4 M	25.2 M	41.6 M	45.1 M	3.48 M	22.9 M
Cadmium	<0.02 mg/kg	TM181		0.425 M	1.13 M	1.27 M	1.74 M	0.207 M	0.94 M
Chromium	<0.9 mg/kg	TM181		12.7 M	13.8 M	13 M	12.1 M	8.3 M	13.2 M
Copper	<1.4 mg/kg	TM181		14 M	55.1 M	196 M	239 M	15 M	97.6 M
Lead	<0.7 mg/kg	TM181		14.7 M	141 M	176 M	145 M	12.2 M	154 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		26.4 M	24 M	20.3 M	24 M	19.7 M	19.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.1 #	16.2 #	17.9 #	17.9 #	10.9 #	15.2 #
Zinc	<1.9 mg/kg	TM181		59.8 M	196 M	216 M	684 M	47.1 M	289 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP659	IP659	IP659	IP665	IP665	IP665
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820613	9820617	9820625	9820470	9820474	9820478
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	20	8.7	20	25	13
Actinolite*	-	SUB (ASB)		Not Detected #			Not Detected #		
Amosite*	-	SUB (ASB)		Not Detected #			Not Detected #		
Chrysotile*	-	SUB (ASB)		Not Detected #			Not Detected #		
Crocidolite*	-	SUB (ASB)		Not Detected #			Not Detected #		
Tremolite*	-	SUB (ASB)		Not Detected #			Not Detected #		
pH	1 pH Units	TM133		5.34 M	5.5 M	5.69 M	6.86 M	5.46 M	6.25 M
Arsenic	<0.6 mg/kg	TM181		29.5 M	8.18 M	7.68 M	34.7 M	78.1 M	15.5 M
Cadmium	<0.02 mg/kg	TM181		1.31 M	0.0857 M	0.3 M	0.669 M	1.81 M	0.354 M
Chromium	<0.9 mg/kg	TM181		13.2 M	18.4 M	14.6 M	11.4 M	13.6 M	12.5 M
Copper	<1.4 mg/kg	TM181		46.6 M	8.28 M	12.4 M	41.4 M	90.5 M	14.8 M
Lead	<0.7 mg/kg	TM181		48.6 M	15.4 M	13.3 M	42.3 M	116 M	14.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		23.5 M	15.4 M	24.3 M	22.2 M	42 M	28.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<10 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.1 #	27.8 #	16.9 #	14.2 #	15 #	14.5 #
Zinc	<1.9 mg/kg	TM181		166 M	35.1 M	81.5 M	83 M	115 M	69.1 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP665	IP665	IP666	IP666	IP666	IP666
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820482	9820491	9820454	9820458	9820462	9820466
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	12	21	13	10	11
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
Soil Organic Matter (SOM)	<0.35 %	TM132				1.81 #			
pH	1 pH Units	TM133		6.02 M	5.98 M	5.51 M	6.26 M	5.7 M	5.72 M
Arsenic	<0.6 mg/kg	TM181		17.8 M	16 M	23.1 M	10.4 M	5.47 M	5.29 M
Cadmium	<0.02 mg/kg	TM181		0.36 M	0.54 M	0.437 M	0.0889 M	0.336 M	0.368 M
Chromium	<0.9 mg/kg	TM181		12 M	14.7 M	14.2 M	12.3 M	13.2 M	11 M
Copper	<1.4 mg/kg	TM181		17.8 M	21.8 M	14.2 M	13.1 M	10 M	14.2 M
Lead	<0.7 mg/kg	TM181		13.1 M	19 M	20.6 M	12.4 M	12.1 M	11.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		32.3 M	37.8 M	17.3 M	28.4 M	22.3 M	23.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1
Vanadium	<0.2 mg/kg	TM181		12.2 #	15.4 #	16.5 #	15.5 #	19.4 #	13.1
Zinc	<1.9 mg/kg	TM181		80.5 M	98.6 M	55 M	61.3 M	74.2 M	47.5 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP667	IP667	IP667	IP667	IP668	IP668
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820433	9820438	9820446	9820450	9820417	9820421
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		20	12	11	11	17	10
Actinolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Chrysotile*	-	SUB (ASB)		Not Detected #				Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #				Not Detected #	
Soil Organic Matter (SOM)	<0.35 %	TM132			3.12 #				
pH	1 pH Units	TM133		5.99 M	6.65 M	6.08 M	6.12 M	6.77 M	6.15 M
Arsenic	<0.6 mg/kg	TM181		11.6 M	10.4 M	14.5 M	10.4 M	8.6 M	8.27 M
Cadmium	<0.02 mg/kg	TM181		1.58 M	0.443 M	0.402 M	0.433 M	0.409 M	0.0568 M
Chromium	<0.9 mg/kg	TM181		14 M	16.4 M	10.6 M	10.9 M	9.89 M	9.92 M
Copper	<1.4 mg/kg	TM181		14.3 M	15.6 M	15 M	13.9 M	4.98 M	8.75 M
Lead	<0.7 mg/kg	TM181		19.5 M	14.7 M	16.5 M	12.8 M	20.8 M	10.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		11.4 M	33.2 M	26.9 M	27.2 M	8.25 M	25.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.1 #	13.6 #	11.7 #	12.3 #	12 #	13.4 #
Zinc	<1.9 mg/kg	TM181		123 M	63.7 M	62.9 M	60.1 M	38.1 M	60 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP668	IP668	IP669	IP669	IP669	IP669
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820425	9820429	9820401	9820405	9820409	9820413
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	11	14	11	11	10
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
Soil Organic Matter (SOM)	<0.35 %	TM132					1.81 #		
pH	1 pH Units	TM133		6.18 M	6.15 M	5.16 M	5.86 M	5.76 M	5.83 M
Arsenic	<0.6 mg/kg	TM181		12.7 M	14 M	29.9 M	8.82 M	7.8 M	8.38 M
Cadmium	<0.02 mg/kg	TM181		0.465 M	0.411 M	0.414 M	0.169 M	0.155 M	0.179 M
Chromium	<0.9 mg/kg	TM181		11.1 M	10.6 M	5.4 M	10.9 M	10.9 M	11.1 M
Copper	<1.4 mg/kg	TM181		10.7 M	9.63 M	18.2 M	12.2 M	14.2 M	11.3 M
Lead	<0.7 mg/kg	TM181		12.7 M	11.5 M	10.3 M	11.8 M	11.8 M	11.3 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		25.3 M	26.6 M	6.56 M	27.3 M	28.2 M	27.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		11.9 #	11.7 #	5.91 #	13.4 #	12.9 #	12.8 #
Zinc	<1.9 mg/kg	TM181		59.8 M	59.3 M	28.5 M	63.1 M	63.5 M	60.4 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP689	IP689	IP689	IP691	IP691	IP691
			Depth (m)	0.20	0.80	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820641	9820645	9820649	9820629	9820633	9820637
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		19	23	11	35	19	14
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #		
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #		
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #		
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #		
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #		Not Detected #		
pH	1 pH Units	TM133		5.45 M	5.23 M	6.03 M	5.91 M	7.34 M	5.55 #
Arsenic	<0.6 mg/kg	TM181		57.8 M	11.8 M	7.47 M	9.51 M	5.41 M	8.14 #
Cadmium	<0.02 mg/kg	TM181		2.7 M	0.57 M	0.105 M	0.724 M	0.122 M	0.168 #
Chromium	<0.9 mg/kg	TM181		77.6 M	15.3 M	11.8 M	7.39 M	13.3 M	13.6 #
Copper	<1.4 mg/kg	TM181		185 M	8.5 M	14.2 M	35.9 M	5.66 M	13 #
Lead	<0.7 mg/kg	TM181		1000 M	19.6 M	13.4 M	34.1 M	11.6 M	15.2 #
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 #
Nickel	<0.2 mg/kg	TM181		106 M	12.4 M	28.4 M	7.81 M	9.3 M	25.5 #
Selenium	<1 mg/kg	TM181		<10 #	<1 #	<1 #	1.07 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		19.2 #	25.1 #	14.8 #	8.33 #	16.7 #	16.9 #
Zinc	<1.9 mg/kg	TM181		422 M	46.6 M	75 M	69 M	26.8 M	67.7 #

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP692	IP692	IP725	IP725	IP725	IP727
			Depth (m)	0.20	3.60	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820665	9820709	9820585	9820589	9820593	9820609
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		28	9.2	18	14	9.9	13
Actinolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Chrysotile*	-	SUB (ASB)		Detected #		Not Detected #			Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #		Not Detected #			Not Detected #
pH	1 pH Units	TM133		6.56 M	6.54 M	6.92 M	5.62 M	6.59 M	5.16 M
Arsenic	<0.6 mg/kg	TM181		32.1 M	6.88 M	20.3 M	12.1 M	9.85 M	13.4 M
Cadmium	<0.02 mg/kg	TM181		1.6 M	0.207 M	0.894 M	0.312 M	0.202 M	1.18 M
Chromium	<0.9 mg/kg	TM181		17.8 M	12.7 M	22 M	14.5 M	12.6 M	12 M
Copper	<1.4 mg/kg	TM181		90 M	13.8 M	44.4 M	28.1 M	19.8 M	57.8 M
Lead	<0.7 mg/kg	TM181		485 M	11.5 M	75.3 M	30.3 M	16.7 M	27.2 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		18.5 M	28.4 M	24.9 M	20.5 M	36 M	25.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		14.3 #	15 #	42 #	19.1 #	16 #	15.6 #
Zinc	<1.9 mg/kg	TM181		206 M	72.5 M	104 M	70.1 M	71.1 M	88.2 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP734	IP734	IP734	IP791	IP791	IP791
			Depth (m)	0.50	1.30	2.30	0.50	0.90	1.90
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820597	9820601	9820605	9820569	9820573	9820581
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		24	12	17	16	8.7	10
Actinolite*	-	SUB (ASB)		Not Detected #			Not Detected #	Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #			Not Detected #	Not Detected #	
Chrysotile*	-	SUB (ASB)		Not Detected #			Not Detected #	Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #			Not Detected #	Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #			Not Detected #	Not Detected #	
Soil Organic Matter (SOM)	<0.35 %	TM132							1.49 #
pH	1 pH Units	TM133		7.01 M	5.63 M	5.21 M	5.12 M	5.97 M	6 M
Arsenic	<0.6 mg/kg	TM181		61.2 M	13.7 M	15.9 M	18.8 M	6.64 M	5.24 M
Cadmium	<0.02 mg/kg	TM181		0.569 M	0.165 M	0.94 M	0.608 M	0.576 M	0.214 M
Chromium	<0.9 mg/kg	TM181		6.89 M	18.1 M	14.2 M	17.3 M	13 M	10.7 M
Copper	<1.4 mg/kg	TM181		152 M	20.2 M	28 M	62.3 M	12.3 M	11.4 M
Lead	<0.7 mg/kg	TM181		204 M	29.5 M	14.1 M	38.7 M	11.7 M	10.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		8.01 M	34.4 M	13.3 M	27.9 M	21.7 M	18.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.14 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		12.2 #	22.9 #	20.6 #	20.9 #	12.8 #	11.8 #
Zinc	<1.9 mg/kg	TM181		85.9 M	108 M	74.9 M	126 M	67.7 M	43.2 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1307	IP1307	IP1307	IP1307	IP3153	IP3153
			Depth (m)	0.30	1.00	3.50	4.50	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820725	9820729	9820733	9820737	9820653	9820657
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	13	12	9.5	9.3	13
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #			Not Detected #	
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #			Not Detected #	
Chrysotile*	-	SUB (ASB)		Detected #	Not Detected #			Not Detected #	
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #			Not Detected #	
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #			Not Detected #	
pH	1 pH Units	TM133		8.26 M	7.61 M	6.85 M	6.67 M	7.88 M	7.95 M
Arsenic	<0.6 mg/kg	TM181		39.6 M	11.2 M	15.7 M	7.46 M	131 M	44.2 M
Cadmium	<0.02 mg/kg	TM181		1.58 M	0.407 M	0.879 M	0.363 M	4.09 M	0.708 M
Chromium	<0.9 mg/kg	TM181		23.7 M	13.1 M	16.2 M	11.5 M	15.9 M	8.1 M
Copper	<1.4 mg/kg	TM181		96.6 M	14.9 M	36.2 M	11 M	266 M	65.7 M
Lead	<0.7 mg/kg	TM181		387 M	18.5 M	56.8 M	13.4 M	1530 M	38.9 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		38.8 M	20.4 M	20.9 M	23.1 M	30.1 M	9.92 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		29.2 #	14.5 #	16.3 #	12.4 #	26.6 #	13.4 #
Zinc	<1.9 mg/kg	TM181		636 M	70.4 M	158 M	58.9 M	5380 M	124 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3153	IP3153	IP3153	IP3153	IP3167	IP3167
			Depth (m)	2.50	3.50	4.50	6.00	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820661	9820669	9820673	9820677	9820681	9820685
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	12	12	11	10	13
Actinolite*	-	SUB (ASB)						Not Detected #	
Amosite*	-	SUB (ASB)						Not Detected #	
Chrysotile*	-	SUB (ASB)						Detected #	
Crocidolite*	-	SUB (ASB)						Not Detected #	
Tremolite*	-	SUB (ASB)						Not Detected #	
Soil Organic Matter (SOM)	<0.35 %	TM132					1.74 #		
pH	1 pH Units	TM133		6.76 M	5.56 M	6.25 M	6.11 M	7.81 M	6.6 M
Arsenic	<0.6 mg/kg	TM181		19.1 M	7.38 M	7.98 M	10.2 M	177 M	21.9 M
Cadmium	<0.02 mg/kg	TM181		1.25 M	0.38 M	0.194 M	0.415 M	11.2 M	1 M
Chromium	<0.9 mg/kg	TM181		16.3 M	9.18 M	10.7 M	13.4 M	15.5 M	13.1 M
Copper	<1.4 mg/kg	TM181		35.8 M	10.7 M	13.1 M	22.6 M	404 M	39.2 M
Lead	<0.7 mg/kg	TM181		105 M	11.6 M	12.4 M	30.2 M	1850 M	80.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		19.4 M	20.5 M	21.2 M	24 M	27.9 M	16 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		20.2 #	11.6 #	12.5 #	15.3 #	28.3 #	19.1 #
Zinc	<1.9 mg/kg	TM181		372 M	65.9 M	54.6 M	90.5 M	7880 M	237 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3167	IP3167	IP3167	IP3223	IP3223	IP3223
			Depth (m)	2.40	3.50	5.20	0.50	1.00	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820689	9820693	9820697	9820701	9820705	9820713
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.8	11	11	19	20	17
Actinolite*	-	SUB (ASB)					Not Detected #	Not Detected #	
Amosite*	-	SUB (ASB)					Not Detected #	Not Detected #	
Chrysotile*	-	SUB (ASB)					Not Detected #	Not Detected #	
Crocidolite*	-	SUB (ASB)					Not Detected #	Not Detected #	
Tremolite*	-	SUB (ASB)					Not Detected #	Not Detected #	
Soil Organic Matter (SOM)	<0.35 %	TM132						6.34 #	
pH	1 pH Units	TM133		6.06 M	5.12 M	5.97 M	8 M	7.85 M	7.33 M
Arsenic	<0.6 mg/kg	TM181		9.53 M	7.98 M	8.61 M	35.5 M	40.3 M	40.3 M
Cadmium	<0.02 mg/kg	TM181		0.399 M	0.403 M	0.389 M	1.64 M	2.27 M	2.33 M
Chromium	<0.9 mg/kg	TM181		12.8 M	10.8 M	11.4 M	18.1 M	20 M	23.9 M
Copper	<1.4 mg/kg	TM181		15.8 M	12.4 M	13.7 M	94.3 M	120 M	348 M
Lead	<0.7 mg/kg	TM181		19 M	12.6 M	16.5 M	353 M	379 M	322 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		25.3 M	21.9 M	22.4 M	25 M	36.2 M	66.9 M
Selenium	<1 mg/kg	TM181		1.01 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.6 #	11.9 #	12.3 #	19.5 #	28 #	32.3 #
Zinc	<1.9 mg/kg	TM181		84.9 M	60.1 M	71.7 M	364 M	856 M	559 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3223	IP3223	IP3315	IP3315	IP3315	IP3315
			Depth (m)	3.50	4.50	0.30	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820717	9820721	9820741	9820744	9820748	9820756
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	10	13	18	10	11
Actinolite*	-	SUB (ASB)				Not Detected #			
Amosite*	-	SUB (ASB)				Not Detected #			
Chrysotile*	-	SUB (ASB)				Not Detected #			
Crocidolite*	-	SUB (ASB)				Not Detected #			
Tremolite*	-	SUB (ASB)				Not Detected #			
Soil Organic Matter (SOM)	<0.35 %	TM132							1.68 #
pH	1 pH Units	TM133		5.92 M	6.56 M	6.4 M	6.5 M	6.47 M	6.82 M
Arsenic	<0.6 mg/kg	TM181		12.6 M	6.69 M	48.6 M	9.7 M	8.68 M	7.26 M
Cadmium	<0.02 mg/kg	TM181		0.663 M	0.274 M	4.27 M	0.268 M	0.378 M	0.38 M
Chromium	<0.9 mg/kg	TM181		13.6 M	10.7 M	15.5 M	16.4 M	11 M	8.76 M
Copper	<1.4 mg/kg	TM181		24 M	14.2 M	97.7 M	9.43 M	11.5 M	10.3 M
Lead	<0.7 mg/kg	TM181		48.3 M	13 M	41.4 M	12.9 M	12.4 M	10.6 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		24.6 M	20.5 M	20.5 M	20.8 M	23 M	17.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.9 #	12.1 #	21.8 #	21.9 #	12 #	10.1 #
Zinc	<1.9 mg/kg	TM181		124 M	48.2 M	505 M	137 M	62.7 M	47.7 M

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP575	IP575	IP575	IP575	IP611	IP611
			Depth (m)	0.50	1.20	2.50	3.50	0.10	0.40
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820553	9820557	9820561	9820565	9820577	9820621
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93.7	97	94	93.9	97.8	101
Acenaphthene-d10 % recovery**	%	TM218		93.2	97.3	96.1	98.5	97.3	101
Phenanthrene-d10 % recovery**	%	TM218		91.5	97.5	97.7	99.4	97.2	98.2
Chrysene-d12 % recovery**	%	TM218		96.9	94.8	92.5	106	99.9	99.1
Perylene-d12 % recovery**	%	TM218		103	96.2	93	102	104	95.9
Naphthalene	<9 µg/kg	TM218		155 @ M	29.7 @ M	1310 @ M	847 @ M	97.3 @ M	24.2 @ M
Acenaphthylene	<12 µg/kg	TM218		57.2 @ M	<12 @ M	45.6 @ M	28.7 @ M	38.4 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		77.7 @ M	9.8 @ M	208 @ M	248 @ M	130 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		79.3 @ M	38.2 @ M	735 @ M	795 @ M	110 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		793 @ M	178 @ M	1150 @ M	1180 @ M	1580 @ M	43.3 @ M
Anthracene	<16 µg/kg	TM218		171 @ M	<16 @ M	188 @ M	266 @ M	302 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		1460 @ M	62.5 @ M	114 @ M	73.4 @ M	4640 @ M	23.5 @ M
Pyrene	<15 µg/kg	TM218		1190 @ M	60.6 @ M	119 @ M	85.1 @ M	3420 @ M	18.5 @ M
Benz(a)anthracene	<14 µg/kg	TM218		992 @ M	39.8 @ M	54.5 @ M	36.4 @ M	2950 @ M	25.9 @ M
Chrysene	<10 µg/kg	TM218		1110 @ M	106 @ M	367 @ M	220 @ M	3700 @ M	25 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1730 @ M	130 @ M	142 @ M	115 @ M	4840 @ M	52.2 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		661 @ M	25.7 @ M	25.9 @ M	23.5 @ M	1680 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		1300 @ M	<15 @ M	<15 @ M	<15 @ M	2850 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		972 @ M	<18 @ M	<18 @ M	<18 @ M	1610 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		312 @ M	<23 @ M	<23 @ M	<23 @ M	654 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1240 @ M	30.1 @ M	<24 @ M	<24 @ M	1850 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		12300	710	4450	3920	30500	213

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP619	IP619	IP619	IP619	IP622	IP623
			Depth (m)	0.50	1.50	2.50	3.50	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820535	9820541	9820545	9820549	9820495	9820500
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		101	104	100	99.1	104	114
Acenaphthene-d10 % recovery**	%	TM218		102	100	103	101	105	105
Phenanthrene-d10 % recovery**	%	TM218		101	98.2	102	101	104	109
Chrysene-d12 % recovery**	%	TM218		102	91.1	102	102	102	97.3
Perylene-d12 % recovery**	%	TM218		111	99.1	111	110	99.8	94.1
Naphthalene	<9 µg/kg	TM218		31.8 @ M	4550 @ M	263 @ M	311 @ M	176 @ M	102 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	315 @ M	15.5 @ M	28.9 @ M	37 @ M	43.6 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	1360 @ M	60.7 @ M	58.4 @ M	23.1 @ M	23.4 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	4930 @ M	394 @ M	270 @ M	<10 @ M	18.2 @ M
Phenanthrene	<15 µg/kg	TM218		41.7 @ M	6930 @ M	603 @ M	466 @ M	224 @ M	339 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	1280 @ M	100 @ M	90.9 @ M	30 @ M	53.1 @ M
Fluoranthene	<17 µg/kg	TM218		27.2 @ M	212 @ M	30.7 @ M	99.5 @ M	805 @ M	517 @ M
Pyrene	<15 µg/kg	TM218		23 @ M	351 @ M	45.7 @ M	117 @ M	940 @ M	400 @ M
Benz(a)anthracene	<14 µg/kg	TM218		29.6 @ M	83 @ M	25.7 @ M	72.6 @ M	417 @ M	201 @ M
Chrysene	<10 µg/kg	TM218		22.9 @ M	122 @ M	109 @ M	192 @ M	603 @ M	374 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		33.6 @ M	74.8 @ M	93.6 @ M	166 @ M	915 @ M	488 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	34.2 @ M	380 @ M	187 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	24.5 @ M	548 @ M	269 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	466 @ M	289 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	136 @ M	88.4 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	31.4 @ M	627 @ M	399 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		210	20200	1740	1960	6330	3790

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP623	IP623	IP623	IP624	IP624	IP624
			Depth (m)	1.50	2.50	3.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820504	9820508	9820512	9820516	9820520	9820524
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93.7	90.4	95.9	102	112	96.9
Acenaphthene-d10 % recovery**	%	TM218		97.7	93.6	99	98.3	118	99.5
Phenanthrene-d10 % recovery**	%	TM218		95.8	92.8	98.2	95.9	118	98.2
Chrysene-d12 % recovery**	%	TM218		99.4	98	101	98.2	119	93.4
Perylene-d12 % recovery**	%	TM218		98.4	96.5	97.6	92.2	125	93.7
Naphthalene	<9 µg/kg	TM218		931 @ M	927 @ M	942 @ M	57.3 @ M	952 @ M	1160 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	53.5 @ M	<12 @ M	<12 @ M	36.5 @ M	24.5 @ M
Acenaphthene	<8 µg/kg	TM218		129 @ M	177 @ M	199 @ M	<8 @ M	74.2 @ M	55.1 @ M
Fluorene	<10 µg/kg	TM218		528 @ M	631 @ M	945 @ M	<10 @ M	299 @ M	154 @ M
Phenanthrene	<15 µg/kg	TM218		881 @ M	923 @ M	1520 @ M	26 @ M	406 @ M	216 @ M
Anthracene	<16 µg/kg	TM218		165 @ M	136 @ M	270 @ M	<16 @ M	83.3 @ M	27.4 @ M
Fluoranthene	<17 µg/kg	TM218		78 @ M	49.2 @ M	44.2 @ M	<17 @ M	160 @ M	40.8 @ M
Pyrene	<15 µg/kg	TM218		101 @ M	72.6 @ M	93.1 @ M	<15 @ M	132 @ M	46.1 @ M
Benz(a)anthracene	<14 µg/kg	TM218		40 @ M	23 @ M	<14 @ M	30.9 @ M	33.4 @ M	22.4 @ M
Chrysene	<10 µg/kg	TM218		215 @ M	198 @ M	186 @ M	18.8 @ M	80.8 @ M	106 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		215 @ M	130 @ M	155 @ M	26.3 @ M	105 @ M	57 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		28.6 @ M	16.3 @ M	<14 @ M	<14 @ M	17.9 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		29.3 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		29.6 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		56.7 @ M	31.8 @ M	27.5 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3430	3370	4380	159	2380	1910

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP624	IP636	IP637	IP638	IP638	IP657
			Depth (m)	3.50	0.50	0.20	0.30	4.40	0.10
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820528	9820752	9820532	9820442	9820486	9820397
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.6	97	101	101	103	97.2
Acenaphthene-d10 % recovery**	%	TM218		101	94.5	102	101	105	94.1
Phenanthrene-d10 % recovery**	%	TM218		101	92.5	99.3	98.3	103	91.6
Chrysene-d12 % recovery**	%	TM218		95.9	94.3	105	100	104	94.3
Perylene-d12 % recovery**	%	TM218		96	91	108	103	101	92.2
Naphthalene	<9 µg/kg	TM218		1470 @ M	71 @ M	187 @ M	90.1 @ M	54.7 @ M	70.9 @ M
Acenaphthylene	<12 µg/kg	TM218		54 @ M	15.6 @ M	20 @ M	21.3 @ M	<12 @ M	15.4 @ M
Acenaphthene	<8 µg/kg	TM218		87 @ M	36.4 @ M	23.3 @ M	15.6 @ M	<8 @ M	30.8 @ M
Fluorene	<10 µg/kg	TM218		299 @ M	32.4 @ M	33.4 @ M	23.4 @ M	<10 @ M	28.8 @ M
Phenanthrene	<15 µg/kg	TM218		335 @ M	329 @ M	376 @ M	213 @ M	409 @ M	217 @ M
Anthracene	<16 µg/kg	TM218		71.6 @ M	56.2 @ M	59.4 @ M	31.4 @ M	<16 @ M	49.3 @ M
Fluoranthene	<17 µg/kg	TM218		26.8 @ M	749 @ M	960 @ M	363 @ M	47.2 @ M	523 @ M
Pyrene	<15 µg/kg	TM218		48 @ M	613 @ M	771 @ M	301 @ M	109 @ M	432 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	525 @ M	867 @ M	276 @ M	26.7 @ M	434 @ M
Chrysene	<10 µg/kg	TM218		36.7 @ M	743 @ M	1260 @ M	355 @ M	266 @ M	525 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		44.9 @ M	1030 @ M	1290 @ M	592 @ M	164 @ M	886 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	454 @ M	588 @ M	212 @ M	21.2 @ M	327 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	632 @ M	971 @ M	351 @ M	<15 @ M	561 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	465 @ M	749 @ M	301 @ M	<18 @ M	474 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	171 @ M	283 @ M	106 @ M	<23 @ M	161 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	574 @ M	791 @ M	380 @ M	34.2 @ M	582 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2470	6500	9230	3630	1130	5320

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP659	IP659	IP659	IP665	IP665	IP665
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820613	9820617	9820625	9820470	9820474	9820478
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.8	105	94.7	99.1	122	92.7
Acenaphthene-d10 % recovery**	%	TM218		96.4	96.7	95.8	85.9	121	91.8
Phenanthrene-d10 % recovery**	%	TM218		94.2	100	93.9	90.3	120	91.8
Chrysene-d12 % recovery**	%	TM218		94.3	84.6	93.5	82.1	123	88.5
Perylene-d12 % recovery**	%	TM218		88.8	80	94.4	78.6	126	90.3
Naphthalene	<9 µg/kg	TM218		28 @ M	125 M	47.6 M	18.2 @ M	2520 @ M	27.9 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 M	<12 M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	29.5 M	<8 M	<8 @ M	79.5 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	39.4 M	<10 M	<10 @ M	167 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		58.2 @ M	42.2 M	27.2 M	115 @ M	588 @ M	72.9 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 M	<16 M	<16 @ M	119 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		33.9 @ M	<17 M	<17 M	90.3 @ M	402 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		24.6 @ M	<15 M	<15 M	69.5 @ M	525 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		29.1 @ M	<14 M	19.7 M	28.2 @ M	195 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		58.5 @ M	<10 M	<10 M	84.8 @ M	439 @ M	35.1 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		97.4 @ M	<15 M	<15 M	92.2 @ M	387 @ M	54.1 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		21.8 @ M	<14 M	<14 M	28.7 @ M	150 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		20.4 @ M	<15 M	<15 M	33.4 @ M	182 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		21.5 @ M	<18 M	<18 M	26.5 @ M	130 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 M	<23 M	<23 @ M	42.3 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 M	<24 M	43.3 @ M	145 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		393	236	<118	630	6070	190

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP665	IP665	IP666	IP666	IP666	IP666
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820482	9820491	9820454	9820458	9820462	9820466
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		94.6	98.6	116	120	95.8	92.7
Acenaphthene-d10 % recovery**	%	TM218		94.6	98.5	105	113	95.6	94.2
Phenanthrene-d10 % recovery**	%	TM218		93.7	97.1	110	116	95.1	91.7
Chrysene-d12 % recovery**	%	TM218		90.8	94.9	102	106	93.2	94.3
Perylene-d12 % recovery**	%	TM218		90.2	96.8	102	98.4	96.8	99.9
Naphthalene	<9 µg/kg	TM218		539 @ M	172 @ M	30.6 @ M	34.8 @ M	34.7 @ M	62.1 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		19.2 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		57.9 @ M	36 @ M	<10 @ M	<10 @ M	32.3 @ M	25.4 @ M
Phenanthrene	<15 µg/kg	TM218		150 @ M	150 @ M	26.4 @ M	67.9 @ M	143 @ M	128 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		23.7 @ M	<17 @ M	<17 @ M	20.3 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		31 @ M	25.4 @ M	<15 @ M	19.5 @ M	26.6 @ M	31.7 @ M
Benz(a)anthracene	<14 µg/kg	TM218		17.9 @ M	17 @ M	<14 @ M	<14 @ M	<14 @ M	16.8 @ M
Chrysene	<10 µg/kg	TM218		65.8 @ M	67.7 @ M	<10 @ M	46.1 @ M	55.9 @ M	79.9 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		32.4 @ M	31.1 @ M	<15 @ M	61.8 @ M	29.5 @ M	47.3 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		936	499	<118	250	322	391

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP667	IP667	IP667	IP667	IP668	IP668
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820433	9820438	9820446	9820450	9820417	9820421
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.9	98.2	93.4	92.8	98.2	94.1
Acenaphthene-d10 % recovery**	%	TM218		101	101	98.7	96.7	98.3	97.2
Phenanthrene-d10 % recovery**	%	TM218		99.3	99.4	100	96.4	98.4	94.2
Chrysene-d12 % recovery**	%	TM218		101	105	106	105	99.8	96.1
Perylene-d12 % recovery**	%	TM218		97.8	108	104	110	112	96.1
Naphthalene	<9 µg/kg	TM218		142 @ M	285 @ M	4670 @ M	1790 @ M	<9 @ M	488 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	19.7 @ M	48.1 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	442 @ M	250 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		23.7 @ M	<10 @ M	1940 @ M	802 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		25.5 @ M	240 @ M	2750 @ M	1200 @ M	<15 @ M	131 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	577 @ M	168 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	44.6 @ M	102 @ M	40.6 @ M	<17 @ M	22.9 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	42 @ M	145 @ M	70.2 @ M	<15 @ M	20 @ M
Benz(a)anthracene	<14 µg/kg	TM218		28 @ M	26.3 @ M	28.4 @ M	34.8 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	201 @ M	252 @ M	108 @ M	<10 @ M	85.8 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		21.4 @ M	154 @ M	171 @ M	97.8 @ M	<15 @ M	99 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	17.4 @ M	28.7 @ M	19 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	21.3 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	26.4 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	43.2 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		241	1010	11200	4620	<118	847

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP668	IP668	IP669	IP669	IP669	IP669
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820425	9820429	9820401	9820405	9820409	9820413
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		90.9	99.2	97.7	92	93.5	93.8
Acenaphthene-d10 % recovery**	%	TM218		92.5	101	101	95.1	96.3	97
Phenanthrene-d10 % recovery**	%	TM218		90.5	97.7	100	91.8	92.2	94.3
Chrysene-d12 % recovery**	%	TM218		94.8	99.9	99	93.7	93.2	94.8
Perylene-d12 % recovery**	%	TM218		100	101	107	93.6	97.5	95.6
Naphthalene	<9 µg/kg	TM218		62.2 @ M	86 @ M	12.6 @ M	235 @ M	46.9 @ M	337 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	17 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	12.9 @ M	<8 @ M	<8 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		12.6 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		68.9 @ M	55.5 @ M	<15 @ M	67.5 @ M	66.9 @ M	69.9 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M	<17 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	<15 @ M	24 @ M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Chrysene	<10 µg/kg	TM218		<10 @ M	26.8 @ M	<10 @ M	40.8 @ M	60.3 @ M	48.7 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	41.9 @ M	<15 @ M	65.5 @ M	78.3 @ M	74.7 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		144	210	<118	409	276	531

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP689	IP689	IP689	IP691	IP691	IP691
			Depth (m)	0.20	0.80	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820641	9820645	9820649	9820629	9820633	9820637
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.1	99.8	93	109	91.4	96.5
Acenaphthene-d10 % recovery**	%	TM218		98.6	99.8	94.6	100	92.4	95.7
Phenanthrene-d10 % recovery**	%	TM218		96.6	98.8	92	97.2	92.2	95.1
Chrysene-d12 % recovery**	%	TM218		102	96.5	93	98.6	95.3	91.1
Perylene-d12 % recovery**	%	TM218		105	103	92.2	95.4	101	93.3
Naphthalene	<9 µg/kg	TM218		83.6 @ M	<9 @ M	473 @ M	99.2 @ M	18.1 M	47.4 @ #
Acenaphthylene	<12 µg/kg	TM218		15.2 @ M	<12 @ M	<12 @ M	126 @ M	<12 M	<12 @ #
Acenaphthene	<8 µg/kg	TM218		91.4 @ M	<8 @ M	15.9 @ M	<8 @ M	<8 M	<8 @ #
Fluorene	<10 µg/kg	TM218		61.2 @ M	<10 @ M	18.5 @ M	<10 @ M	<10 M	14.7 @ #
Phenanthrene	<15 µg/kg	TM218		1430 @ M	<15 @ M	97.6 @ M	58.7 @ M	21.9 M	105 @ #
Anthracene	<16 µg/kg	TM218		33.3 @ M	<16 @ M	<16 @ M	<16 @ M	<16 M	<16 @ #
Fluoranthene	<17 µg/kg	TM218		1290 @ M	<17 @ M	<17 @ M	68.9 @ M	<17 M	<17 @ #
Pyrene	<15 µg/kg	TM218		954 @ M	<15 @ M	24.1 @ M	71.3 @ M	<15 M	<15 @ #
Benz(a)anthracene	<14 µg/kg	TM218		289 @ M	23.4 @ M	16.6 @ M	74 @ M	<14 M	20.4 @ #
Chrysene	<10 µg/kg	TM218		743 @ M	<10 @ M	57.1 @ M	93.1 @ M	<10 M	35.7 @ #
Benzo(b)fluoranthene	<15 µg/kg	TM218		690 @ M	<15 @ M	49.4 @ M	149 @ M	<15 M	23.3 @ #
Benzo(k)fluoranthene	<14 µg/kg	TM218		249 @ M	<14 @ M	<14 @ M	51.5 @ M	<14 M	<14 @ #
Benzo(a)pyrene	<15 µg/kg	TM218		436 @ M	<15 @ M	<15 @ M	71.3 @ M	<15 M	<15 @ #
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		269 @ M	<18 @ M	<18 @ M	62.5 @ M	<18 M	<18 @ #
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		81.8 @ M	<23 @ M	<23 @ M	<23 @ M	<23 M	<23 @ #
Benzo(g,h,i)perylene	<24 µg/kg	TM218		341 @ M	<24 @ M	<24 @ M	69.4 @ M	<24 M	<24 @ #
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7060	<118	752	995	<118	246

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP692	IP692	IP725	IP725	IP725	IP727
			Depth (m)	0.20	3.60	0.50	1.50	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820665	9820709	9820585	9820589	9820593	9820609
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	92.4	103	94.8	95.2	98.1
Acenaphthene-d10 % recovery**	%	TM218		106	93.6	104	94.7	95.5	99.2
Phenanthrene-d10 % recovery**	%	TM218		104	91	104	93.9	95	99.1
Chrysene-d12 % recovery**	%	TM218		108	94.2	103	89.9	90.4	99.7
Perylene-d12 % recovery**	%	TM218		106	93.7	108	89.6	87	108
Naphthalene	<9 µg/kg	TM218		104 @ M	33.9 @ M	57.9 @ M	32.7 @ M	43.5 @ M	22.4 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		19.8 @ M	<8 @ M	19.2 @ M	<8 @ M	52.9 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		17.8 @ M	<10 @ M	15.1 @ M	<10 @ M	46.4 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		264 @ M	181 @ M	403 @ M	286 @ M	253 @ M	337 @ M
Anthracene	<16 µg/kg	TM218		30.5 @ M	<16 @ M	47.9 @ M	<16 @ M	<16 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		396 @ M	<17 @ M	669 @ M	86.7 @ M	27.2 @ M	211 @ M
Pyrene	<15 µg/kg	TM218		334 @ M	<15 @ M	570 @ M	79.3 @ M	54.1 @ M	248 @ M
Benz(a)anthracene	<14 µg/kg	TM218		256 @ M	20.5 @ M	308 @ M	31.7 @ M	17.1 @ M	77.6 @ M
Chrysene	<10 µg/kg	TM218		381 @ M	64.5 @ M	437 @ M	145 @ M	134 @ M	208 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		657 @ M	61.8 @ M	449 @ M	130 @ M	62.3 @ M	198 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		251 @ M	<14 @ M	177 @ M	23.6 @ M	<14 @ M	40.9 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		392 @ M	<15 @ M	322 @ M	<15 @ M	<15 @ M	96.2 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		447 @ M	<18 @ M	197 @ M	<18 @ M	<18 @ M	43.9 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		148 @ M	<23 @ M	71 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		574 @ M	<24 @ M	234 @ M	<24 @ M	<24 @ M	65 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		4270	362	3980	814	691	1550

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP734	IP734	IP734	IP791	IP791	IP791
			Depth (m)	0.50	1.30	2.30	0.50	0.90	1.90
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820597	9820601	9820605	9820569	9820573	9820581
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		101	95.9	95.7	95.7	101	91.9
Acenaphthene-d10 % recovery**	%	TM218		101	95.8	95.8	97.1	103	94.7
Phenanthrene-d10 % recovery**	%	TM218		101	95.5	95.1	105	111	97.6
Chrysene-d12 % recovery**	%	TM218		99.6	93.7	91.2	101	113	93.9
Perylene-d12 % recovery**	%	TM218		106	97.4	92	92.8	100	94.8
Naphthalene	<9 µg/kg	TM218		<9 @ M	25.2 @ M	19.3 @ M	75.9 @ M	12.5 @ M	22.8 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 @ M	<12 @ M	<12 @ M	107 @ M	49.5 @ M	39 @ M
Acenaphthene	<8 µg/kg	TM218		<8 @ M	<8 @ M	<8 @ M	838 @ M	461 @ M	344 @ M
Fluorene	<10 µg/kg	TM218		<10 @ M	<10 @ M	<10 @ M	37.4 @ M	29 @ M	31.2 @ M
Phenanthrene	<15 µg/kg	TM218		<15 @ M	104 @ M	64.6 @ M	67.6 @ M	111 @ M	152 @ M
Anthracene	<16 µg/kg	TM218		<16 @ M	<16 @ M	<16 @ M	23.2 @ M	24.7 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		<17 @ M	32.7 @ M	27.2 @ M	53.1 @ M	23 @ M	24.7 @ M
Pyrene	<15 µg/kg	TM218		<15 @ M	24.2 @ M	27.3 @ M	55.2 @ M	25 @ M	29.9 @ M
Benz(a)anthracene	<14 µg/kg	TM218		25.6 @ M	31 @ M	27.6 @ M	40.6 @ M	24.3 @ M	24.2 @ M
Chrysene	<10 µg/kg	TM218		16.8 @ M	61 @ M	19.6 @ M	33.1 @ M	49.3 @ M	54.6 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 @ M	53.8 @ M	26.5 @ M	35.5 @ M	53.1 @ M	43.4 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	<14 @ M	<14 @ M	18.6 @ M	<14 @ M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	<15 @ M	<15 @ M	25.3 @ M	<15 @ M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	331	212	1410	863	766

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1307	IP1307	IP1307	IP1307	IP3153	IP3153
			Depth (m)	0.30	1.00	3.50	4.50	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820725	9820729	9820733	9820737	9820653	9820657
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		109	98.3	95.9	92.8	89.8	101
Acenaphthene-d10 % recovery**	%	TM218		110	98.5	105	92.8	87.9	98.8
Phenanthrene-d10 % recovery**	%	TM218		111	99.3	106	93.2	86.5	97.9
Chrysene-d12 % recovery**	%	TM218		115	96	107	93	95.6	99.5
Perylene-d12 % recovery**	%	TM218		126	97.2	123	102	96.4	103
Naphthalene	<9 µg/kg	TM218		318 @ M	<9 @ M	540 @ M	465 @ M	95.2 @ M	23.9 M
Acenaphthylene	<12 µg/kg	TM218		14.3 @ M	<12 @ M	419 @ M	<12 @ M	40 @ M	<12 M
Acenaphthene	<8 µg/kg	TM218		49.5 @ M	<8 @ M	2140 @ M	61.8 @ M	13.4 @ M	9.68 M
Fluorene	<10 µg/kg	TM218		43.9 @ M	<10 @ M	3010 @ M	39.7 @ M	17.2 @ M	<10 M
Phenanthrene	<15 µg/kg	TM218		738 @ M	28.9 @ M	3250 @ M	81.5 @ M	156 @ M	77.3 M
Anthracene	<16 µg/kg	TM218		95.5 @ M	<16 @ M	2770 @ M	<16 @ M	46.1 @ M	80.8 M
Fluoranthene	<17 µg/kg	TM218		1210 @ M	<17 @ M	2580 @ M	<17 @ M	205 @ M	55.4 M
Pyrene	<15 µg/kg	TM218		1000 @ M	<15 @ M	3540 @ M	<15 @ M	250 @ M	43 M
Benz(a)anthracene	<14 µg/kg	TM218		587 @ M	<14 @ M	1170 @ M	18.9 @ M	151 @ M	37.8 M
Chrysene	<10 µg/kg	TM218		705 @ M	<10 @ M	1550 @ M	38.8 @ M	182 @ M	52.3 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		970 @ M	<15 @ M	1640 @ M	52.5 @ M	306 @ M	109 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		405 @ M	<14 @ M	674 @ M	<14 @ M	109 @ M	35.2 M
Benzo(a)pyrene	<15 µg/kg	TM218		757 @ M	<15 @ M	1320 @ M	<15 @ M	223 @ M	62.9 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		518 @ M	<18 @ M	740 @ M	<18 @ M	161 @ M	45.6 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		163 @ M	<23 @ M	230 @ M	<23 @ M	52.5 @ M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		699 @ M	<24 @ M	848 @ M	<24 @ M	243 @ M	68.1 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		8270	<118	26400	758	2250	701

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3153	IP3153	IP3153	IP3153	IP3167	IP3167
			Depth (m)	2.50	3.50	4.50	6.00	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820661	9820669	9820673	9820677	9820681	9820685
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.6	97.5	98.7	96	101	97
Acenaphthene-d10 % recovery**	%	TM218		99.7	98.2	96.8	94.9	99.4	96.2
Phenanthrene-d10 % recovery**	%	TM218		99.6	97.3	95.2	95.1	98.7	95.4
Chrysene-d12 % recovery**	%	TM218		99.8	93.9	94.8	92.8	107	91.6
Perylene-d12 % recovery**	%	TM218		107	98	97.2	96.4	117	91.9
Naphthalene	<9 µg/kg	TM218		126 @ M	106 @ M	23.2 M	<9 @ M	59.9 @ M	22.8 @ M
Acenaphthylene	<12 µg/kg	TM218		44.7 @ M	<12 @ M	<12 M	<12 @ M	88.9 @ M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		123 @ M	33.4 @ M	<8 M	<8 @ M	129 @ M	<8 @ M
Fluorene	<10 µg/kg	TM218		114 @ M	28.5 @ M	<10 M	<10 @ M	153 @ M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		397 @ M	129 @ M	66.8 M	24.7 @ M	1590 @ M	97 @ M
Anthracene	<16 µg/kg	TM218		107 @ M	<16 @ M	<16 M	<16 @ M	337 @ M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		303 @ M	44.9 @ M	<17 M	<17 @ M	2260 @ M	49.8 @ M
Pyrene	<15 µg/kg	TM218		320 @ M	36 @ M	<15 M	<15 @ M	1680 @ M	36.3 @ M
Benz(a)anthracene	<14 µg/kg	TM218		114 @ M	23.8 @ M	22.9 M	18.9 @ M	1090 @ M	35.5 @ M
Chrysene	<10 µg/kg	TM218		269 @ M	68.6 @ M	28.9 M	16.4 @ M	934 @ M	55.2 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		187 @ M	50.4 @ M	34.1 M	35.4 @ M	1210 @ M	48.2 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		82.6 @ M	<14 @ M	<14 M	<14 @ M	539 @ M	17.4 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		143 @ M	<15 @ M	<15 M	<15 @ M	1090 @ M	17.7 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		90 @ M	<18 @ M	<18 M	<18 @ M	570 @ M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 M	<23 @ M	168 @ M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		114 @ M	<24 @ M	<24 M	<24 @ M	712 @ M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2530	521	176	<118	12600	380

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3167	IP3167	IP3167	IP3223	IP3223	IP3223
			Depth (m)	2.40	3.50	5.20	0.50	1.00	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820689	9820693	9820697	9820701	9820705	9820713
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		94.1	92.6	95	94.1	102	114
Acenaphthene-d10 % recovery**	%	TM218		95	98.9	96	99.2	103	111
Phenanthrene-d10 % recovery**	%	TM218		91.8	98.2	95.4	91.1	104	112
Chrysene-d12 % recovery**	%	TM218		92.7	94.6	91.7	95	109	116
Perylene-d12 % recovery**	%	TM218		97.8	98.9	92.3	94.3	123	126
Naphthalene	<9 µg/kg	TM218		372 M	684 @ M	30.9 @ M	28.7 @ M	59.7 @ M	100 @ M
Acenaphthylene	<12 µg/kg	TM218		<12 M	206 @ M	<12 @ M	<12 @ M	55.9 @ M	52.2 @ M
Acenaphthene	<8 µg/kg	TM218		170 M	618 @ M	12.4 @ M	13.6 @ M	23.4 @ M	54.9 @ M
Fluorene	<10 µg/kg	TM218		809 M	947 @ M	36.9 @ M	14.2 @ M	68 @ M	52.4 @ M
Phenanthrene	<15 µg/kg	TM218		636 M	238 @ M	137 @ M	279 @ M	1820 @ M	589 @ M
Anthracene	<16 µg/kg	TM218		123 M	251 @ M	<16 @ M	32.8 @ M	243 @ M	88.5 @ M
Fluoranthene	<17 µg/kg	TM218		24.6 M	24.9 @ M	<17 @ M	637 @ M	2950 @ M	1060 @ M
Pyrene	<15 µg/kg	TM218		38.5 M	47.6 @ M	<15 @ M	506 @ M	2220 @ M	971 @ M
Benz(a)anthracene	<14 µg/kg	TM218		32.4 M	20.1 @ M	18.6 @ M	490 @ M	1440 @ M	515 @ M
Chrysene	<10 µg/kg	TM218		58.5 M	74.7 @ M	60.4 @ M	598 @ M	1880 @ M	768 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		47.1 M	38.6 @ M	41 @ M	709 @ M	2460 @ M	808 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 @ M	<14 @ M	301 @ M	936 @ M	277 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 @ M	<15 @ M	489 @ M	1560 @ M	697 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 @ M	<18 @ M	297 @ M	969 @ M	465 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 @ M	<23 @ M	103 @ M	314 @ M	154 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 @ M	<24 @ M	395 @ M	1160 @ M	660 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2310	3150	337	4890	18100	7310

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3223	IP3223	IP3315	IP3315	IP3315	IP3315
			Depth (m)	3.50	4.50	0.30	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820717	9820721	9820741	9820744	9820748	9820756
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		94.7	92.9	93.5	101	110	93
Acenaphthene-d10 % recovery**	%	TM218		96	93.2	99.2	98.9	108	92.6
Phenanthrene-d10 % recovery**	%	TM218		97.1	93.6	96.2	97.3	103	92.2
Chrysene-d12 % recovery**	%	TM218		96.1	92.3	99.9	97.4	99.7	89.6
Perylene-d12 % recovery**	%	TM218		102	98	97.3	101	98	92.2
Naphthalene	<9 µg/kg	TM218		51.9 @ M	<9 @ M	<9 @ M	<9 M	<9 M	19.3 @ M
Acenaphthylene	<12 µg/kg	TM218		35.3 @ M	<12 @ M	<12 @ M	<12 M	<12 M	<12 @ M
Acenaphthene	<8 µg/kg	TM218		52.4 @ M	<8 @ M	<8 @ M	<8 M	<8 M	<8 @ M
Fluorene	<10 µg/kg	TM218		124 @ M	32.3 @ M	<10 @ M	<10 M	<10 M	<10 @ M
Phenanthrene	<15 µg/kg	TM218		194 @ M	173 @ M	27.4 @ M	61.6 M	62.6 M	172 @ M
Anthracene	<16 µg/kg	TM218		92 @ M	25.8 @ M	<16 @ M	<16 M	<16 M	<16 @ M
Fluoranthene	<17 µg/kg	TM218		47.1 @ M	140 @ M	21.7 @ M	<17 M	<17 M	<17 @ M
Pyrene	<15 µg/kg	TM218		59.1 @ M	111 @ M	17.7 @ M	<15 M	<15 M	<15 @ M
Benz(a)anthracene	<14 µg/kg	TM218		32.2 @ M	56.1 @ M	30.4 @ M	26.4 M	22.5 M	22.7 @ M
Chrysene	<10 µg/kg	TM218		75.6 @ M	105 @ M	19.1 @ M	24.8 M	28.7 M	70.6 @ M
Benzo(b)fluoranthene	<15 µg/kg	TM218		59.2 @ M	88.6 @ M	19.5 @ M	19.4 M	33.1 M	49.9 @ M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 @ M	25.3 @ M	<14 @ M	<14 M	<14 M	<14 @ M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 @ M	40.2 @ M	<15 @ M	<15 M	<15 M	<15 @ M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 @ M	21.7 @ M	<18 @ M	<18 M	<18 M	<18 @ M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 @ M	<23 @ M	<23 @ M	<23 M	<23 M	<23 @ M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 @ M	29.9 @ M	<24 @ M	<24 M	<24 M	<24 @ M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		823	849	136	132	147	335

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend		Customer Sample R	IP575	IP575	IP575	IP575	IP611	IP611
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&+§@	Sample deviation (see appendix)							
		Depth (m)	0.50	1.20	2.50	3.50	0.10	0.40
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
		Sample Time	.	.	.	.	.	.
		Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
		SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
		Lab Sample No.(s)	9820553	9820557	9820561	9820565	9820577	9820621
		AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	75 @	82	131	116	86	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 @ M	2350 M	201000 M	121000 M	233 M	1100 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 @ M	<20 M	2060 M	1420 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089	<40 @ M	<40 M	288 M	161 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089	<8 @ M	<8 M	<8 M	<8 M	<8 M	13.1 M
Ethylbenzene	<3 µg/kg	TM089	<12 @ M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089	<24 @ M	<24 M	<24 M	<24 M	<24 M	91.8 M
o-Xylene	<3 µg/kg	TM089	<12 @ M	<12 M	<12 M	<12 M	<12 M	36.1 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36 @	<9	<9	<9	<9	128
sum of detected BTEX by GC	<24 µg/kg	TM089	<96 @	<24	288	161	<24	141
Aliphatics >C5-C6	<10 µg/kg	TM089	<40 @	<40	1390	1100	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<40 @	90.1	43900	24300	46.7	134
Aliphatics >C8-C10	<10 µg/kg	TM089	<40 @	297	54900	30000	54.7	310
Aliphatics >C10-C12	<10 µg/kg	TM089	<40 @	1040	37100	26300	49	172
Aliphatics >C12-C16	<100 µg/kg	TM173	12900	69100	305000	224000	1190	287
Aliphatics >C16-C21	<100 µg/kg	TM173	86800	103000	364000	266000	6270	1930
Aliphatics >C21-C35	<100 µg/kg	TM173	326000	11600	27000	17100	34600	2960
Aliphatics >C35-C44	<100 µg/kg	TM173	126000	<100	<100	<100	10400	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	552000	184000	697000	507000	52500	5180
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40 @	<40	288	161	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40 @	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40 @	198	36600	20000	<40	343
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40 @	691	24700	17500	<40	115
Aromatics >EC12-EC16	<100 µg/kg	TM173	2510	324	24900	69400	2080	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	25700	12300	47200	90300	31900	756
Aromatics >EC21-EC35	<100 µg/kg	TM173	266000	1640	8900	9320	140000	4530
Aromatics >EC35-EC44	<100 µg/kg	TM173	161000	<100	997	<100	45500	848
Aromatics >EC40-EC44	<100 µg/kg	TM173	67200	<100	554	<100	16100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	456000	14300	82000	169000	220000	6130
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1010000	200000	977000	795000	272000	12400
Aromatics >EC16-EC35	<100 µg/kg	TM173	292000	13900	56100	99600	172000	5290

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP619	IP619	IP619	IP619	IP622	IP623
			Depth (m)	0.50	1.50	2.50	3.50	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820535	9820541	9820545	9820549	9820495	9820500
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		109	119 3 @	96 2	132 @	92 @	97
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		874 M	4360000 3 @ M	20600 2 M	739000 @ M	546000 @ M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<100 3 @ M	390 2 M	<50 @ M	<50 @ M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<200 3 @ M	<200 2 M	<100 @ M	<100 @ M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<40 3 @ M	<40 2 M	<20 @ M	<20 @ M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<60 3 @ M	<60 2 M	<30 @ M	<30 @ M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<120 3 @ M	<120 2 M	<60 @ M	<60 @ M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<60 3 @ M	<60 2 M	<30 @ M	<30 @ M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<180 3 @	<9 2	<90 @	<90 @	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<480 3 @	<24 2	<240 @	<240 @	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	2290 3 @	381 2	3590 @	<100 @	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		200	195000 3 @	2790 2	65000 @	7050 @	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		275	1430000 3 @	4050 2	221000 @	122000 @	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		106	1070000 3 @	6050 2	181000 @	201000 @	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		1080	2480000	363000	260000	442000	6240
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	1920000	320000	253000	29500	57700
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	354000	45500	269000	16700	33100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	41500	<100	61300	<100	1630
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1080	4790000	729000	843000	488000	98600
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<200 3 @	<200 2	<100 @	<100 @	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<200 3 @	<200 2	<100 @	<100 @	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		184	951000 3 @	2700 2	147000 @	81600 @	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		70.7	714000 3 @	4030 2	121000 @	134000 @	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	356000	44800	62900	25100	793
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	444000	58200	92500	9440	10700
Aromatics >EC21-EC35	<100 µg/kg	TM173		4460	250000	31000	193000	35200	36500
Aromatics >EC35-EC44	<100 µg/kg	TM173		1780	54000	6540	57700	12400	11500
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	14100	2650	21700	4460	3440
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		6240	1100000	141000	406000	82200	59600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		8190	10300000	890000	1990000	1120000	158000
Aromatics >EC16-EC35	<100 µg/kg	TM173		4460	694000	89300	285000	44600	47300

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP623	IP623	IP623	IP624	IP624	IP624
			Depth (m)	1.50	2.50	3.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820504	9820508	9820512	9820516	9820520	9820524
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		103	105	119	122	101	94
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		34600 M	103000 M	81000 M	63700 M	136000 M	234000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	325 M	315 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	183 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	98.6 M	<24 M	152 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	98.6	<9	152
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	183	98.6	<24	152
Aliphatics >C5-C6	<10 µg/kg	TM089		189	758	1180	614	499	214
Aliphatics >C6-C8	<10 µg/kg	TM089		4000	11000	10300	7100	9200	6890
Aliphatics >C8-C10	<10 µg/kg	TM089		7880	20300	13300	13300	24400	43500
Aliphatics >C10-C12	<10 µg/kg	TM089		10400	34200	28300	20200	51500	92300
Aliphatics >C12-C16	<100 µg/kg	TM173		546000	218000	543000	190000	423000	629000
Aliphatics >C16-C21	<100 µg/kg	TM173		516000	223000	542000	51800	143000	123000
Aliphatics >C21-C35	<100 µg/kg	TM173		38900	14900	39300	9110	12300	7690
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1100000	456000	1120000	251000	579000	761000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	183	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		5250	13500	8860	8970	16200	29200
Aromatics >EC10-EC12	<10 µg/kg	TM089		6900	22800	18800	13500	34300	61500
Aromatics >EC12-EC16	<100 µg/kg	TM173		132000	13700	64400	41200	12900	15100
Aromatics >EC16-EC21	<100 µg/kg	TM173		170000	27300	99600	30700	18600	13400
Aromatics >EC21-EC35	<100 µg/kg	TM173		21900	2250	12200	72100	1420	2180
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	23500	<100	653
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	7970	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		324000	43300	176000	168000	33000	31300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1460000	602000	1380000	482000	748000	1030000
Aromatics >EC16-EC35	<100 µg/kg	TM173		192000	29600	112000	103000	20100	15600

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP624	IP636	IP637	IP638	IP638	IP657
			Depth (m)	3.50	0.50	0.20	0.30	4.40	0.10
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820528	9820752	9820532	9820442	9820486	9820397
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		111 @	76	95 2	79	90	74
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		534000 @ M	910 M	439 2 M	455 M	4100 M	365 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<50 @ M	<20 M	<20 2 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		144 @ M	<40 M	<40 2 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<20 @ M	13.5 M	<8 2 M	10.2 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<30 @ M	<12 M	<12 2 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<60 @ M	38.1 M	<24 2 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<30 @ M	19.7 M	<12 2 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<90 @	57.8	<9 2	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<240 @	71.3	<24 2	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		3430 @	<40	<40 2	<40	845	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		53100 @	183	56.3 2	70.1	1740	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		114000 @	180	62.5 2	84.8	369	41.3
Aliphatics >C10-C12	<10 µg/kg	TM089		173000 @	188	133 2	118	509	145
Aliphatics >C12-C16	<100 µg/kg	TM173		655000	4960	23400	122000	1120	20900
Aliphatics >C16-C21	<100 µg/kg	TM173		225000	14300	79700	70300	<100	38100
Aliphatics >C21-C35	<100 µg/kg	TM173		14400	24000	57300	66600	<100	63700
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	2500	3460	12200	755	13700
Total Aliphatics >C12-C44	<100 µg/kg	TM173		894000	45800	164000	272000	1880	136000
Aromatics >EC5-EC7	<10 µg/kg	TM089		144 @	<40	<40 2	<40	40.6	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<100 @	<40	<40 2	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		75800 @	183	70 2	76.8	260	46
Aromatics >EC10-EC12	<10 µg/kg	TM089		115000 @	125	87.5 2	78	339	96.8
Aromatics >EC12-EC16	<100 µg/kg	TM173		20100	434	1910	2240	657	865
Aromatics >EC16-EC21	<100 µg/kg	TM173		24900	3780	16600	12600	<100	11000
Aromatics >EC21-EC35	<100 µg/kg	TM173		2820	35000	56000	49900	485	62800
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	13000	17200	19500	<100	27500
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	4360	4750	6490	<100	9640
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		47800	52200	91700	84300	1140	102000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1480000	98800	256000	356000	7120	239000
Aromatics >EC16-EC35	<100 µg/kg	TM173		27700	38800	72600	62600	485	73800

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP659	IP659	IP659	IP665	IP665	IP665
			Depth (m)	0.50	1.50	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820613	9820617	9820625	9820470	9820474	9820478
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		96	131	110	124	75	92 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		5460 M	818000 M	947000 M	<176 M	140000 M	2090 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<100 M	<100 M	<20 M	<20 M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 M	<200 M	<200 M	<40 M	<40 M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 M	<40 M	<40 M	<8 M	<8 M	17.1 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<60 M	<60 M	<12 M	209 M	21.7 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<120 M	<120 M	<24 M	635 M	41 @ M
o-Xylene	<3 µg/kg	TM089		<12 M	<60 M	<60 M	<12 M	<12 M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<180	<180	<9	635	41 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<480	<480	<24	844	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	660	3540	<40	10200	85.5 @
Aliphatics >C6-C8	<10 µg/kg	TM089		55.7	42700	29400	<40	43900	331 @
Aliphatics >C8-C10	<10 µg/kg	TM089		191	209000	208000	<40	26800	472 @
Aliphatics >C10-C12	<10 µg/kg	TM089		3040	256000	340000	<40	24400	474 @
Aliphatics >C12-C16	<100 µg/kg	TM173		3560	293000	28700	689	163000	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		3090	34100	7400	18800	210000	2030
Aliphatics >C21-C35	<100 µg/kg	TM173		3560	3010	<100	59200	442000	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	410	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		10200	330000	36100	79100	815000	2030
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<200	<200	<40	<40	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<200	<200	<40	<40	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		132	139000	139000	<40	18700	376 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		2030	171000	227000	<40	16300	316 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	53700	<100	<100	21700	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		110	11800	<100	6190	44100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		5290	5550	<100	42400	136000	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		1620	<100	<100	2680	1170	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	1260	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		7010	71000	<100	51300	203000	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		22700	1220000	983000	130000	1160000	4120
Aromatics >EC16-EC35	<100 µg/kg	TM173		5400	17400	<100	48600	180000	<100

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP665	IP665	IP666	IP666	IP666	IP666
			Depth (m)	3.50	4.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820482	9820491	9820454	9820458	9820462	9820466
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		127	43 @	114	88	68 @	60 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		86300 M	1200 @ M	61800 M	9860 M	1050 @ M	15400 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 @ M	<20 M	<20 M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 M	<40 @ M	<40 M	1110 M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 M	<8 @ M	<8 M	56.8 M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		230 M	15.8 @ M	<12 M	83.5 M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		862 M	28.3 @ M	<24 M	763 M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 @ M	<12 M	25.5 M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		862	<36 @	<9	789	<36 @	<36 @
sum of detected BTEX by GC	<24 µg/kg	TM089		1090	<96 @	<24	2040	<96 @	<96 @
Aliphatics >C5-C6	<10 µg/kg	TM089		2910	81.4 @	201	1150	78.8 @	317 @
Aliphatics >C6-C8	<10 µg/kg	TM089		14900	241 @	3040	3990	536 @	2160 @
Aliphatics >C8-C10	<10 µg/kg	TM089		17600	181 @	12800	867	104 @	2500 @
Aliphatics >C10-C12	<10 µg/kg	TM089		22900	320 @	22300	746	154 @	5260 @
Aliphatics >C12-C16	<100 µg/kg	TM173		53300	5590	269000	1160	<100	10900
Aliphatics >C16-C21	<100 µg/kg	TM173		11400	<100	74300	224	<100	2140
Aliphatics >C21-C35	<100 µg/kg	TM173		9940	<100	318000	520	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		400	<100	2000	205	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		75000	5590	663000	2110	<100	13100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 @	<40	1110	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 @	<40	56.8	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		12800	164 @	8560	1450	74.4 @	1670 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		15200	214 @	14900	498	103 @	3510 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		24600	<100	5440	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		2060	<100	42800	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		2470	<100	404000	1130	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	12500	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		197	<100	5170	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		29100	<100	465000	1130	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		190000	6800	1190000	13100	1050	28500
Aromatics >EC16-EC35	<100 µg/kg	TM173		4530	<100	447000	1130	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP667	IP667	IP667	IP667	IP668	IP668
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820433	9820438	9820446	9820450	9820417	9820421
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		130	88	103 @	107 @	107	128 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		220000 M	54700 M	709000 @ M	478000 @ M	1180 M	827000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<100 @ M	<50 @ M	<20 M	<100 @ M
Benzene	<10 µg/kg	TM089		<40 M	63.8 M	<200 @ M	<100 @ M	<40 M	<200 @ M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<40 @ M	<20 @ M	<8 M	<40 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<60 @ M	<30 @ M	<12 M	<60 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<120 @ M	<60 @ M	<24 M	<120 @ M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<60 @ M	<30 @ M	<12 M	<60 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<36	<180 @	<90 @	<9	<180 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<96	<480 @	<240 @	<24	<480 @
Aliphatics >C5-C6	<10 µg/kg	TM089		314	575	724 @	1590 @	<40	623 @
Aliphatics >C6-C8	<10 µg/kg	TM089		22800	5320	18100 @	49600 @	<40	35400 @
Aliphatics >C8-C10	<10 µg/kg	TM089		73000	11300	144000 @	113000 @	145	230000 @
Aliphatics >C10-C12	<10 µg/kg	TM089		45200	17900	270000 @	143000 @	540	244000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		24600	9910	1830000	846000	<100	98400
Aliphatics >C16-C21	<100 µg/kg	TM173		206	3950	1790000	872000	<100	13500
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	151000	76100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		449	<100	2160	<100	<100	128
Total Aliphatics >C12-C44	<100 µg/kg	TM173		25300	13900	3780000	1790000	<100	112000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	63.8	<200 @	<100 @	<40	<200 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<200 @	<100 @	<40	<200 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		48700	7510	95900 @	75200 @	96	153000 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		30100	12000	180000 @	95400 @	360	163000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		14100	2870	504000	102000	<100	15600
Aromatics >EC16-EC21	<100 µg/kg	TM173		189	1070	603000	137000	<100	3040
Aromatics >EC21-EC35	<100 µg/kg	TM173		816	2910	72000	19500	236	2380
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	3750	4160	<100	<100	2460
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	1980	888	<100	<100	1350
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		15100	10600	1180000	259000	236	23400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		260000	79100	5670000	2530000	1410	962000
Aromatics >EC16-EC35	<100 µg/kg	TM173		1010	3980	675000	157000	236	5420

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP668	IP668	IP669	IP669	IP669	IP669
			Depth (m)	2.50	3.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820425	9820429	9820401	9820405	9820409	9820413
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		119	130	138	101	131	96
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		258000 M	258000 M	33400 M	61400 M	247000 M	316000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		53.1 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<36	<9	<36	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089		53.1	<96	<24	<96	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089		1630	906	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		21500	13700	61.5	574	2570	1240
Aliphatics >C8-C10	<10 µg/kg	TM089		74300	67800	4660	14300	71700	75000
Aliphatics >C10-C12	<10 µg/kg	TM089		66500	78400	15300	22200	75100	114000
Aliphatics >C12-C16	<100 µg/kg	TM173		2270	7730	361000	<100	50800	83200
Aliphatics >C16-C21	<100 µg/kg	TM173		1050	<100	60500	<100	6490	5850
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	3930	<100	958	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	985	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3330	7730	426000	<100	58200	89100
Aromatics >EC5-EC7	<10 µg/kg	TM089		53.1	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		49500	45200	3120	9530	47800	50000
Aromatics >EC10-EC12	<10 µg/kg	TM089		44400	52300	10200	14800	50100	75800
Aromatics >EC12-EC16	<100 µg/kg	TM173		655	1540	12900	<100	3130	13400
Aromatics >EC16-EC21	<100 µg/kg	TM173		562	<100	6920	<100	1070	1420
Aromatics >EC21-EC35	<100 µg/kg	TM173		475	<100	6050	2090	1840	1370
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	1330	2150	<100	226
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	1160	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1690	1540	27200	4240	6040	16400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		263000	268000	487000	65700	311000	421000
Aromatics >EC16-EC35	<100 µg/kg	TM173		1040	<100	13000	2090	2910	2790

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP689	IP689	IP689	IP691	IP691	IP691
			Depth (m)	0.20	0.80	2.50	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820641	9820645	9820649	9820629	9820633	9820637
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80	98	90	116	110	106
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	278 M	890000 M	1330000 M	30400 M	11900 #
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<100 M	<100 M	<20 M	<20 #
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<200 M	<200 M	<40 M	<40 #
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<40 M	<40 M	<8 M	<8 #
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<60 M	<60 M	<12 M	<12 #
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	726 M	<120 M	<24 M	<24 #
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<60 M	<60 M	<12 M	<12 #
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	726	<180	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	726	<480	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	212	907	237	655
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	52.4	9800	12000	1640	2220
Aliphatics >C8-C10	<10 µg/kg	TM089		45.5	59	198000	346000	8100	1990
Aliphatics >C10-C12	<10 µg/kg	TM089		55.4	66.8	329000	442000	9020	3380
Aliphatics >C12-C16	<100 µg/kg	TM173		4770	<100	19800	522000	22000	11700
Aliphatics >C16-C21	<100 µg/kg	TM173		5410	<100	1290	66100	3790	2920
Aliphatics >C21-C35	<100 µg/kg	TM173		12200	<100	<100	23900	<100	915
Aliphatics >C35-C44	<100 µg/kg	TM173		637	<100	<100	1090	<100	503
Total Aliphatics >C12-C44	<100 µg/kg	TM173		23000	<100	21100	613000	25800	16000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<200	<200	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<200	<200	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	40.6	133000	231000	5400	1330
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	44.5	219000	295000	6010	2260
Aromatics >EC12-EC16	<100 µg/kg	TM173		704	<100	<100	20700	<100	438
Aromatics >EC16-EC21	<100 µg/kg	TM173		7130	<100	<100	20600	<100	194
Aromatics >EC21-EC35	<100 µg/kg	TM173		30100	735	3610	51100	<100	3820
Aromatics >EC35-EC44	<100 µg/kg	TM173		10200	<100	540	12800	<100	1980
Aromatics >EC40-EC44	<100 µg/kg	TM173		2900	<100	261	2720	<100	966
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		48100	735	4150	105000	<100	6430
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		71300	1010	915000	2050000	56200	34300
Aromatics >EC16-EC35	<100 µg/kg	TM173		37200	735	3610	71800	<100	4010

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend		Customer Sample R	IP692	IP692	IP725	IP725	IP725	IP727
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&+§@	Sample deviation (see appendix)							
		Depth (m)	0.20	3.60	0.50	1.50	2.50	0.50
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
		Sample Time	.	.	.	.	.	.
		Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
		SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
		Lab Sample No.(s)	9820665	9820709	9820585	9820589	9820593	9820609
		AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	71	91	76	88 @	87	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	1290 M	4480 M	<176 M	<176 @ M	1540 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M	<20 M	<20 M	<20 @ M	<20 M	<20 M
Benzene	<10 µg/kg	TM089	<40 M	53.9 M	<40 M	<40 @ M	<40 M	<40 M
Toluene	<2 µg/kg	TM089	<8 M	<8 M	<8 M	<8 @ M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089	<12 M	<12 M	<12 M	<12 @ M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089	<24 M	<24 M	<24 M	<24 @ M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089	<12 M	24.2 M	<12 M	<12 @ M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	24.2	<9	<36 @	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	78.1	<24	<96 @	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	495	<40	<40 @	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	53.2	2360	<40	<40 @	52.2	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	195	683	<40	<40 @	233	45.2
Aliphatics >C10-C12	<10 µg/kg	TM089	522	246	<40	47.6 @	640	48.7
Aliphatics >C12-C16	<100 µg/kg	TM173	54700	<100	<100	<100	<100	336
Aliphatics >C16-C21	<100 µg/kg	TM173	127000	<100	1960	1520	<100	365
Aliphatics >C21-C35	<100 µg/kg	TM173	98000	<100	7920	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	4250	<100	1810	<100	<100	1090
Total Aliphatics >C12-C44	<100 µg/kg	TM173	284000	<100	11700	1520	<100	1790
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	53.9	<40	<40 @	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40 @	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	144	480	<40	<40 @	167	44.1
Aromatics >EC10-EC12	<10 µg/kg	TM089	349	164	<40	<40 @	427	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173	3010	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	30100	<100	1380	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	99700	431	14300	<100	<100	171
Aromatics >EC35-EC44	<100 µg/kg	TM173	35700	1270	6520	<100	<100	581
Aromatics >EC40-EC44	<100 µg/kg	TM173	8760	774	2620	<100	<100	319
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	169000	1700	22300	<100	<100	752
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	454000	6190	34000	1600	1540	2730
Aromatics >EC16-EC35	<100 µg/kg	TM173	130000	431	15700	<100	<100	171

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP734	IP734	IP734	IP791	IP791	IP791
			Depth (m)	0.50	1.30	2.30	0.50	0.90	1.90
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820597	9820601	9820605	9820569	9820573	9820581
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		96	125 @	109	93 @	72	78
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	355 @ M	587 M	5390 @ M	5580 M	10500 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 @ M	<20 M	<100 @ M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 @ M	<40 M	<200 @ M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 @ M	<8 M	<40 @ M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 @ M	<12 M	<60 @ M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 @ M	<24 M	<120 @ M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		33 M	<12 @ M	<12 M	<60 @ M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		33	<36 @	<9	<180 @	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		33	<96 @	<24	<480 @	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40 @	<40	<200 @	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40 @	52	<200 @	72.3	49.3
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	57.6 @	90.8	254 @	384	670
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	139 @	201	2920 @	2900	5580
Aliphatics >C12-C16	<100 µg/kg	TM173		886	<100	151000	2260000	1890000	707000
Aliphatics >C16-C21	<100 µg/kg	TM173		331	3290	<100	6290000	4390000	1390000
Aliphatics >C21-C35	<100 µg/kg	TM173		6840	14100	8060	925000	605000	194000
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	5110	<100	3330	1120	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		8060	22500	159000	9480000	6890000	2290000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 @	<40	<200 @	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 @	<40	<200 @	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		42.2	46.3 @	85.9	<200 @	276	448
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	92.7 @	134	1950 @	1930	3720
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	679	23700	30000	5440
Aromatics >EC16-EC21	<100 µg/kg	TM173		669	571	1510	275000	282000	42300
Aromatics >EC21-EC35	<100 µg/kg	TM173		44100	7600	5030	159000	96600	16300
Aromatics >EC35-EC44	<100 µg/kg	TM173		5990	4710	1700	16900	4710	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		1950	1830	1020	5050	1500	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		50800	12900	8920	475000	413000	64000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		58900	35800	169000	9960000	7300000	2360000
Aromatics >EC16-EC35	<100 µg/kg	TM173		44800	8170	6540	434000	379000	58600

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP1307	IP1307	IP1307	IP1307	IP3153	IP3153
			Depth (m)	0.30	1.00	3.50	4.50	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820725	9820729	9820733	9820737	9820653	9820657
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80	112	72	105	116	98
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	37600 M	416 M	3350 M	481 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	74.6 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	52 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	130 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	182	<9	<9	<36
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	257	<24	<24	<96
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	610	56.6	49.5	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	3890	48.8	235	43.7
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	18100	153	1740	233
Aliphatics >C12-C16	<100 µg/kg	TM173		4500	<100	1340000	11600	24700	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		45900	<100	2190000	23500	108000	903
Aliphatics >C21-C35	<100 µg/kg	TM173		139000	1580	1110000	14000	271000	8330
Aliphatics >C35-C44	<100 µg/kg	TM173		56900	<100	76500	<100	97100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		246000	1580	4710000	49100	501000	9230
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	2850	<40	157	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	12100	102	1160	155
Aromatics >EC12-EC16	<100 µg/kg	TM173		3360	<100	551000	285	1720	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		25400	<100	1100000	3870	19800	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		179000	4120	751000	4980	261000	6400
Aromatics >EC35-EC44	<100 µg/kg	TM173		110000	2400	155000	1530	160000	5150
Aromatics >EC40-EC44	<100 µg/kg	TM173		46000	1140	62200	655	65000	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		318000	6530	2560000	10700	442000	11500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		564000	8200	7310000	60200	946000	21300
Aromatics >EC16-EC35	<100 µg/kg	TM173		204000	4120	1850000	8840	281000	6400

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3153	IP3153	IP3153	IP3153	IP3167	IP3167
			Depth (m)	2.50	3.50	4.50	6.00	0.30	1.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820661	9820669	9820673	9820677	9820681	9820685
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		120	105	100	112	72	102
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		63100 M	33000 M	12100 M	959 M	<176 M	13500 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		79.7 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		766 M	<12 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		766	<9	<36	<36	<9	<36
sum of detected BTEX by GC	<24 µg/kg	TM089		846	<24	<96	<96	<24	<96
Aliphatics >C5-C6	<10 µg/kg	TM089		92.8	49	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		7140	4250	174	<40	<40	63.3
Aliphatics >C8-C10	<10 µg/kg	TM089		13300	9240	862	159	<40	1060
Aliphatics >C10-C12	<10 µg/kg	TM089		19700	7960	6300	401	<40	7020
Aliphatics >C12-C16	<100 µg/kg	TM173		88300	81500	10700	27800	1940	5500
Aliphatics >C16-C21	<100 µg/kg	TM173		61400	18800	7440	62700	29800	13600
Aliphatics >C21-C35	<100 µg/kg	TM173		43600	2280	4750	199000	132000	56200
Aliphatics >C35-C44	<100 µg/kg	TM173		8000	<100	<100	56000	57400	16600
Total Aliphatics >C12-C44	<100 µg/kg	TM173		201000	103000	22900	345000	221000	91900
Aromatics >EC5-EC7	<10 µg/kg	TM089		79.7	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		9620	6160	574	105	<40	706
Aromatics >EC10-EC12	<10 µg/kg	TM089		13100	5310	4200	268	<40	4680
Aromatics >EC12-EC16	<100 µg/kg	TM173		2330	3120	376	1260	438	304
Aromatics >EC16-EC21	<100 µg/kg	TM173		13000	4030	1320	13300	6310	2590
Aromatics >EC21-EC35	<100 µg/kg	TM173		44300	5560	3570	117000	107000	42800
Aromatics >EC35-EC44	<100 µg/kg	TM173		21800	5630	1390	57800	68900	30600
Aromatics >EC40-EC44	<100 µg/kg	TM173		9070	2810	560	23500	28100	13800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		81400	18300	6660	190000	182000	76300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		346000	154000	41600	536000	403000	182000
Aromatics >EC16-EC35	<100 µg/kg	TM173		57300	9590	4890	131000	113000	45400

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3167	IP3167	IP3167	IP3223	IP3223	IP3223
			Depth (m)	2.40	3.50	5.20	0.50	1.00	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820689	9820693	9820697	9820701	9820705	9820713
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		101	94	102	79	75 @	74
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		146000 M	92200 M	15900 M	<176 M	235 @ M	49000 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 @ M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 @ M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 @ M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 @ M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 @ M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 @ M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<36	<36	<36	<9	<9 @	<36
sum of detected BTEX by GC	<24 µg/kg	TM089		<96	<96	<96	<24	<24 @	<96
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40 @	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		2210	491	40.3	<40	<40 @	67.8
Aliphatics >C8-C10	<10 µg/kg	TM089		26400	9300	622	<40	<40 @	3760
Aliphatics >C10-C12	<10 µg/kg	TM089		59700	45700	8890	<40	91.3 @	25600
Aliphatics >C12-C16	<100 µg/kg	TM173		738000	1590000	88400	3100	11500	11000
Aliphatics >C16-C21	<100 µg/kg	TM173		203000	416000	30300	52900	85100	62600
Aliphatics >C21-C35	<100 µg/kg	TM173		79000	60600	5580	218000	330000	285000
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	853	<100	80700	207000	127000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1020000	2070000	124000	355000	634000	486000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40 @	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40 @	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		17600	6200	414	<40	<40 @	2500
Aromatics >EC10-EC12	<10 µg/kg	TM089		39800	30500	5920	<40	60 @	17100
Aromatics >EC12-EC16	<100 µg/kg	TM173		57400	35400	1060	2420	2740	1700
Aromatics >EC16-EC21	<100 µg/kg	TM173		44900	64500	3720	18300	36500	12700
Aromatics >EC21-EC35	<100 µg/kg	TM173		34300	20400	3690	216000	442000	266000
Aromatics >EC35-EC44	<100 µg/kg	TM173		2730	1210	1960	140000	337000	192000
Aromatics >EC40-EC44	<100 µg/kg	TM173		1300	324	1010	58500	147000	80500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		139000	122000	10400	377000	818000	473000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1300000	2280000	151000	732000	1450000	1010000
Aromatics >EC16-EC35	<100 µg/kg	TM173		79200	84900	7410	235000	478000	279000

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	IP3223	IP3223	IP3315	IP3315	IP3315	IP3315
			Depth (m)	3.50	4.50	0.30	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014	14/08/2014
			Sample Time	.	.	.	.	.	.
			Date Received	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014	17/08/2014
			SDG Ref	140817-4	140817-4	140817-4	140817-4	140817-4	140817-4
			Lab Sample No.(s)	9820717	9820721	9820741	9820744	9820748	9820756
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		102	103	100	100	102	88 2
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		11600 M	14200 M	<176 M	1750 M	<176 M	<176 2 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 2 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 2 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 2 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 2 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 2 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 2 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<36	<9	<36	<9	<9 2
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<96	<24	<96	<24	<24 2
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40 2
Aliphatics >C6-C8	<10 µg/kg	TM089		745	81	<40	<40	<40	<40 2
Aliphatics >C8-C10	<10 µg/kg	TM089		2350	1290	<40	65.9	<40	<40 2
Aliphatics >C10-C12	<10 µg/kg	TM089		4150	7170	<40	970	<40	<40 2
Aliphatics >C12-C16	<100 µg/kg	TM173		156000	8210	868	758	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		220000	16300	12500	300	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		47600	6020	45500	991	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	889	13700	332	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		423000	31500	72500	2380	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40 2
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40 2
Aromatics >EC8-EC10	<10 µg/kg	TM089		1570	858	<40	43.9	<40	<40 2
Aromatics >EC10-EC12	<10 µg/kg	TM089		2770	4780	<40	647	<40	<40 2
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		16500	391	1330	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		10300	1780	30600	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	1000	23100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	290	9730	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		26800	3170	55000	<100	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		461000	48800	127000	4130	<100	<100
Aromatics >EC16-EC35	<100 µg/kg	TM173		26800	2170	31900	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP611 0.40 SOLID 14/08/2014 00:00:00 140817-4 9820621 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP692 0.20 SOLID 14/08/2014 00:00:00 140817-4 9820665 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP1307 0.30 SOLID 14/08/2014 00:00:00 140817-4 9820725 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	IP3167 0.30 SOLID 14/08/2014 00:00:00 140817-4 9820681 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
SUB (ASB)				
TM 304				
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Test Completion Dates

Lab Sample No(s)	9820553	9820557	9820561	9820565	9820577	9820621	9820535	9820541	9820545	9820549
Customer Sample Ref.	IP575	IP575	IP575	IP575	IP611	IP611	IP619	IP619	IP619	IP619
AGS Ref.										
Depth	0.50	1.20	2.50	3.50	0.10	0.40	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014				28-Aug-2014	28-Aug-2014	28-Aug-2014			
Asbestos Quantification - Full						12-Sep-2014				
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	28-Aug-2014	28-Aug-2014	29-Aug-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014
Metals in solid samples by OES	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014
PAH by GCMS	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014
pH	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	23-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	22-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014
TPH CWG GC (S)	01-Sep-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014

Lab Sample No(s)	9820495	9820500	9820504	9820508	9820512	9820516	9820520	9820524	9820528	9820752
Customer Sample Ref.	IP622	IP623	IP623	IP623	IP623	IP624	IP624	IP624	IP624	IP636
AGS Ref.										
Depth	0.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014	28-Aug-2014				28-Aug-2014				28-Aug-2014
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014
GRO by GC-FID (S)	31-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	31-Aug-2014	28-Aug-2014
Metals in solid samples by OES	28-Aug-2014	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	28-Aug-2014	26-Aug-2014	27-Aug-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014
pH	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014
Sample description	23-Aug-2014	23-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	23-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014
Total Organic Carbon				26-Aug-2014						
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014

Lab Sample No(s)	9820532	9820442	9820486	9820397	9820613	9820617	9820625	9820470	9820474	9820478
Customer Sample Ref.	IP637	IP638	IP638	IP657	IP659	IP659	IP659	IP665	IP665	IP665
AGS Ref.										
Depth	0.20	0.30	4.40	0.10	0.50	1.50	2.50	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014	28-Aug-2014		28-Aug-2014	28-Aug-2014			28-Aug-2014		
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	28-Aug-2014	29-Aug-2014	28-Aug-2014	28-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014	31-Aug-2014
Metals in solid samples by OES	27-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	26-Aug-2014	27-Aug-2014	28-Aug-2014	29-Aug-2014
PAH by GCMS	01-Sep-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	30-Aug-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014
pH	29-Aug-2014	29-Aug-2014	01-Sep-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Sample description	22-Aug-2014	22-Aug-2014	20-Aug-2014	22-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014
Total Organic Carbon	27-Aug-2014									
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014

Lab Sample No(s)	9820482	9820491	9820454	9820458	9820462	9820466	9820433	9820438	9820446	9820450
Customer Sample Ref.	IP665	IP665	IP666	IP666	IP666	IP666	IP667	IP667	IP667	IP667
AGS Ref.										
Depth	3.50	4.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*			28-Aug-2014				28-Aug-2014			
EPH CWG (Aliphatic) GC (S)	02-Sep-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	02-Sep-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
GRO by GC-FID (S)	29-Aug-2014	31-Aug-2014	29-Aug-2014	29-Aug-2014	31-Aug-2014	31-Aug-2014	29-Aug-2014	30-Aug-2014	31-Aug-2014	31-Aug-2014
Metals in solid samples by OES	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014	29-Aug-2014	27-Aug-2014
PAH by GCMS	31-Aug-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
pH	30-Aug-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
Sample description	20-Aug-2014	20-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	23-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014
Total Organic Carbon			27-Aug-2014					26-Aug-2014		
TPH CWG GC (S)	02-Sep-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Lab Sample No(s)	9820417	9820421	9820425	9820429	9820401	9820405	9820409	9820413	9820641	9820645
Customer Sample Ref.	IP668	IP668	IP668	IP668	IP669	IP669	IP669	IP669	IP689	IP689
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.20	0.80
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014				28-Aug-2014				28-Aug-2014	28-Aug-2014
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
GRO by GC-FID (S)	29-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	28-Aug-2014	28-Aug-2014
Metals in solid samples by OES	27-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	27-Aug-2014
PAH by GCMS	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	31-Aug-2014
pH	30-Aug-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	29-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	30-Aug-2014
Sample description	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	22-Aug-2014
Total Organic Carbon						26-Aug-2014				
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014

Lab Sample No(s)	9820649	9820629	9820633	9820637	9820665	9820709	9820585	9820589	9820593	9820609
Customer Sample Ref.	IP689	IP691	IP691	IP691	IP692	IP692	IP725	IP725	IP725	IP727
AGS Ref.										
Depth	2.50	0.50	1.50	2.50	0.20	3.60	0.50	1.50	2.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014			28-Aug-2014		28-Aug-2014			28-Aug-2014
Asbestos Quantification - Full					11-Sep-2014					
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014	31-Aug-2014	29-Aug-2014	28-Aug-2014
Metals in solid samples by OES	27-Aug-2014	27-Aug-2014	26-Aug-2014	27-Aug-2014	27-Aug-2014	27-Aug-2014	28-Aug-2014	21-Aug-2014	21-Aug-2014	27-Aug-2014
PAH by GCMS	01-Sep-2014	02-Sep-2014	29-Aug-2014	31-Aug-2014	02-Sep-2014	01-Sep-2014	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014
pH	30-Aug-2014	30-Aug-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Sample description	20-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	20-Aug-2014	23-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014
TPH CWG GC (S)	01-Sep-2014	02-Sep-2014	31-Aug-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014

Lab Sample No(s)	9820597	9820601	9820605	9820569	9820573	9820581	9820725	9820729	9820733	9820737
Customer Sample Ref.	IP734	IP734	IP734	IP791	IP791	IP791	IP1307	IP1307	IP1307	IP1307
AGS Ref.										
Depth	0.50	1.30	2.30	0.50	0.90	1.90	0.30	1.00	3.50	4.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014			28-Aug-2014	28-Aug-2014		28-Aug-2014	28-Aug-2014		
Asbestos Quantification - Full							11-Sep-2014			
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014
GRO by GC-FID (S)	29-Aug-2014	31-Aug-2014	29-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014
Metals in solid samples by OES	28-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014	28-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014
PAH by GCMS	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014
pH	29-Aug-2014	01-Sep-2014	01-Sep-2014	29-Aug-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014
Sample description	23-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	22-Aug-2014	20-Aug-2014	22-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014
Total Organic Carbon						26-Aug-2014				
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	01-Sep-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	01-Sep-2014

Lab Sample No(s)	9820653	9820657	9820661	9820669	9820673	9820677	9820681	9820685	9820689	9820693
Customer Sample Ref.	IP3153	IP3153	IP3153	IP3153	IP3153	IP3153	IP3167	IP3167	IP3167	IP3167
AGS Ref.										
Depth	0.30	1.30	2.50	3.50	4.50	6.00	0.30	1.30	2.40	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	28-Aug-2014						28-Aug-2014			
Asbestos Quantification - Full							11-Sep-2014			
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
GRO by GC-FID (S)	29-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Metals in solid samples by OES	29-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	27-Aug-2014	29-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	29-Aug-2014
PAH by GCMS	01-Sep-2014	30-Aug-2014	31-Aug-2014	31-Aug-2014	30-Aug-2014	31-Aug-2014	02-Sep-2014	31-Aug-2014	30-Aug-2014	31-Aug-2014
pH	29-Aug-2014	01-Sep-2014	30-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	30-Aug-2014	30-Aug-2014	01-Sep-2014
Sample description	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014
Total Organic Carbon						26-Aug-2014				
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014

CERTIFICATE OF ANALYSIS

SDG:	140817-4	**Location:**	Coed Darcy	**Order Number:**	CD0791
Job:	H_ATKINS_LDC-224	**Customer:**	Atkins Global Ltd	**Report Number:**	283884
Client Reference:	Site Wide Trial Pitting	**Attention:**	Jack Lowrie	**Superseded Report:**	282574

Lab Sample No(s)	9820697	9820701	9820705	9820713	9820717	9820721	9820741	9820744	9820748	9820756
Customer Sample Ref.	IP3167	IP3223	IP3223	IP3223	IP3223	IP3223	IP3315	IP3315	IP3315	IP3315
AGS Ref.										
Depth	5.20	0.50	1.00	2.50	3.50	4.50	0.30	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		28-Aug-2014	28-Aug-2014				28-Aug-2014			
EPH CWG (Aliphatic) GC (S)	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
EPH CWG (Aromatic) GC (S)	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014
GRO by GC-FID (S)	30-Aug-2014	29-Aug-2014	30-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	29-Aug-2014	30-Aug-2014	29-Aug-2014	29-Aug-2014
Metals in solid samples by OES	29-Aug-2014	27-Aug-2014	28-Aug-2014	28-Aug-2014	27-Aug-2014	29-Aug-2014	29-Aug-2014	27-Aug-2014	29-Aug-2014	29-Aug-2014
PAH by GCMS	31-Aug-2014	02-Sep-2014	02-Sep-2014	02-Sep-2014	31-Aug-2014	31-Aug-2014	02-Sep-2014	30-Aug-2014	30-Aug-2014	31-Aug-2014
pH	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014	30-Aug-2014
Sample description	20-Aug-2014	23-Aug-2014	22-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014	26-Aug-2014	20-Aug-2014	20-Aug-2014	20-Aug-2014
Total Organic Carbon			27-Aug-2014							26-Aug-2014
TPH CWG GC (S)	01-Sep-2014	01-Sep-2014	02-Sep-2014	01-Sep-2014	31-Aug-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014	01-Sep-2014

Derwentside Environmental Testing Services

Certificate of Analysis

Certificate Number 14-13674

27-Aug-14

Client	Alcontrol Laboratories Units 7 & 8 Hawarden Business Park Manor Road Hawarden Deeside CH5 3US
Our Reference	14-13674
Client Reference	140817-4
Contract Title	140817-4
Description	33 Soil samples.
Date Received	21-Aug-14
Date Started	21-Aug-14
Date Completed	27-Aug-14
Test Procedures	Asbestos Analysis DETSC 1101.
Notes	Opinions and interpretations are outside the scope of UKAS accreditation. 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. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Rob Brown
Business Manager

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