





Campbell Reith Hill  
Somerset House  
47-49 London Road  
Redhill  
Surrey  
RH1 1LV

**Attention:** Rhyadd Watkins

## CERTIFICATE OF ANALYSIS

**Date:** 13 June 2012  
**Customer:** H\_CAMREITH\_REH  
**Sample Delivery Group (SDG):** 120523-31  
**Your Reference:**  
**Location:** Redhill - Bourne Estate  
**Report No:** 184055

We received 75 samples on Thursday March 15, 2012 and 36 of these samples were scheduled for analysis which was completed on Wednesday June 13, 2012. 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





SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

## Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5333263	BHT2A	ES1	0.20	09/03/2012
5333266	BHT2A	ES2	0.50	09/03/2012
5490957	BHT2A	D1	0.50	09/03/2012
5333267	BHT2A	ES3	1.00	09/03/2012
5333268	BHT2A	ES4	1.50	09/03/2012
5333269	BHT2A	ES5	2.00	09/03/2012
5333270	BHT2A	ES6	2.50	09/03/2012
5333271	BHT2A	ES7	3.00	09/03/2012
5490958	BHT2A	D4	3.00	09/03/2012
5333272	BHT2A	ES8	3.50	09/03/2012
5333273	BHT2A	ES9	4.50	09/03/2012
5333274	BHT2A	ES10	5.50	09/03/2012
5490961	BHT2A	D5	6.20	09/03/2012
5333275	BHT2A	ES11	6.50	09/03/2012
5490942	BHT2A	D7	8.50	09/03/2012
5333849	BHT4	ES1	0.25	12/03/2012
5333850	BHT4	ES2	0.50	12/03/2012
5333851	BHT4	ES3	1.00	12/03/2012
5333852	BHT4	ES4	1.50	12/03/2012
5333853	BHT4	ES5	2.00	12/03/2012
5333854	BHT4	ES6	2.50	12/03/2012
5333855	BHT4	ES7	3.00	12/03/2012
5333856	BHT4	ES8	3.50	12/03/2012
5490943	BHT4	B3	3.50	12/03/2012
5333857	BHT4	ES9	4.00	12/03/2012
5333858	BHT4	ES10	4.50	12/03/2012
5333860	BHT4	ES11	5.00	12/03/2012
5333861	BHT4	ES12	5.50	12/03/2012
5333862	BHT4	ES13	6.00	12/03/2012
5333864	BHT4	ES14	7.00	12/03/2012
5333865	BHT4	ES15	7.50	12/03/2012
5333866	BHT4	ES16	8.00	12/03/2012
5332755	FPT4	ES1	0.20	08/03/2012
5332758	FPT4	ES2	0.50	08/03/2012
5332759	FPT4	ES3	1.00	08/03/2012
5332761	FPT4	ES4	1.50	08/03/2012
5333666	WST1	ES1	0.10	06/03/2012
5333667	WST1	ES2	0.30	06/03/2012
5333668	WST1	ES3	0.80	06/03/2012
5333669	WST1	ES4	1.20	06/03/2012
5333670	WST1	ES5	1.60	06/03/2012
5333671	WST1	ES6	2.00	06/03/2012
5333672	WST1	ES7	2.40	06/03/2012
5333673	WST1	ES8	2.60	06/03/2012
5333694	WST1	ES9	3.00	06/03/2012
5332745	WST2A	ES1	0.10	06/03/2012
5332747	WST2A	ES2	0.30	06/03/2012
5332748	WST2A	ES3	0.70	06/03/2012
5332749	WST2A	ES4	1.10	06/03/2012
5332750	WST2A	ES5	1.50	06/03/2012
5332751	WST2A	ES6	2.00	06/03/2012
5332752	WST2A	ES7	2.50	06/03/2012
5332753	WST2A	ES8	3.00	06/03/2012
5334181	WST3	ES1	0.10	06/03/2012
5334182	WST3	ES2	0.30	06/03/2012
5334183	WST3	ES3	0.60	06/03/2012

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
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**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5334185	WST3	ES4	1.00	06/03/2012
5334186	WST3	ES5	1.30	06/03/2012
5334187	WST3	ES6	1.60	06/03/2012
5334188	WST3	ES7	2.00	06/03/2012
5334189	WST3	ES8	2.20	06/03/2012
5334190	WST3	ES9	2.90	09/03/2012
5333695	WST4	ES1	0.20	06/03/2012
5333696	WST4	ES2	0.50	06/03/2012
5333697	WST4	ES3	0.90	06/03/2012
5333698	WST4	ES4	1.40	06/03/2012
5333699	WST4	ES5	1.60	06/03/2012
5333700	WST4	ES6	2.00	06/03/2012
5333701	WST4	ES7	2.30	06/03/2012
5334191	WST5	ES1	0.25	08/03/2012
5334192	WST5	ES2	0.50	09/03/2012
5334193	WST5	ES3	1.00	08/03/2012
5334194	WST5	ES4	1.50	08/03/2012
5334195	WST5	ES5	1.80	08/03/2012
5334196	WST5	ES6	2.00	08/03/2012

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



SDG: 120523-31  
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 Client Reference:

Location: Redhill - Bourne Estate  
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Order Number:  
 Report Number: 184055  
 Superseded Report:

SOLID			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
Results Legend			5333666	WST1	ES1	0.10	250g Amber Jar (AL)
<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: yellow; margin-right: 5px;"></div> Test           <div style="width: 20px; height: 20px; background-color: red; margin-left: 20px; margin-right: 5px; display: flex; align-items: center; justify-content: center; color: white; font-size: 10px;">N</div> No Determination Possible         </div>			5333668	WST1	ES3	0.80	250g Amber Jar (AL)
			5333670	WST1	ES5	1.60	250g Amber Jar (AL)
			5333671	WST1	ES6	2.00	400g Tub (ALEE14)
			5333694	WST1	ES9	3.00	250g Amber Jar (AL)
			5333267	BHT2A	ES3	1.00	400g Tub (ALEE14)
			5333269	BHT2A	ES5	2.00	250g Amber Jar (AL)
			5333271	BHT2A	ES7	3.00	400g Tub (ALEE14)
			5332753	WST2A	ES8	3.00	400g Tub (ALEE14)
			5332752	WST2A	ES7	2.50	400g Tub (ALEE14)
			5332751	WST2A	ES6	2.00	400g Tub (ALEE14)
			5332749	WST2A	ES4	1.10	400g Tub (ALEE14)
			5332745	WST2A	ES1	0.10	400g Tub (ALEE14)
			5333850	BHT4	ES2	0.50	250g Amber Jar (AL)
			5333854	BHT4	ES6	2.50	400g Tub (ALEE14)
			5333857	BHT4	ES9	4.00	250g Amber Jar (AL)
			5332758	FPT4	ES2	0.50	250g Amber Jar (AL)
			5332755	FPT4	ES1	0.20	400g Tub (ALEE14)
			5332759	FPT4	ES3	1.00	250g Amber Jar (AL)
			5333699	WST4	ES5	1.60	400g Tub (ALEE14)
			5333698	WST4	ES4	1.40	250g Amber Jar (AL)
			5333695	WST4	ES1	0.20	400g Tub (ALEE14)
Anions by Kone (soil)	All	NDPs: 0 Tests: 10					
Asbestos Identification	All	NDPs: 0 Tests: 1					
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 26					
Asbestos Quant. - Waste Limit*	All	NDPs: 0 Tests: 6					
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 24					
Magnesium (BRE)	All	NDPs: 0 Tests: 6					
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 25					
	Cadmium	NDPs: 0 Tests: 25					
	Chromium	NDPs: 0 Tests: 25					
	Copper	NDPs: 0 Tests: 25					
	Lead	NDPs: 0 Tests: 25					
	Mercury	NDPs: 0 Tests: 25					
	Nickel	NDPs: 0 Tests: 25					
	Selenium	NDPs: 0 Tests: 25					
	Zinc	NDPs: 0 Tests: 25					



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SOLID		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
Results Legend		5333700	WST14	ES6	2.00	400g Tub (ALEE214)
<b>X</b> Test <b>N</b> No Determination Possible		5333699	WST14	ES5	1.60	400g Tub (ALEE214)
		5333698	WST14	ES4	1.40	400g Tub (ALEE214)
		5333695	WST14	ES1	0.20	400g Tub (ALEE214)
		5332759	FPT14	ES3	1.00	250g Amber Jar (AL)
		5332758	FPT14	ES2	0.50	250g Amber Jar (AL)
		5332755	FPT14	ES1	0.20	400g Tub (ALEE214)
		5333857	BHT14	ES9	4.00	250g Amber Jar (AL)
		5333854	BHT14	ES6	2.50	400g Tub (ALEE214)
		5333850	BHT14	ES2	0.50	250g Amber Jar (AL)
		5332753	WST2A	ES8	3.00	400g Tub (ALEE214)
		5332752	WST2A	ES7	2.50	400g Tub (ALEE214)
		5332751	WST2A	ES6	2.00	400g Tub (ALEE214)
		5332749	WST2A	ES4	1.10	400g Tub (ALEE214)
		5332745	WST2A	ES1	0.10	400g Tub (ALEE214)
		5333271	BHT2A	ES7	3.00	250g Amber Jar (AL)
		5333269	BHT2A	ES5	2.00	250g Amber Jar (AL)
		5333267	BHT2A	ES3	1.00	400g Tub (ALEE214)
		5333694	WST1	ES9	3.00	250g Amber Jar (AL)
		5333671	WST1	ES6	2.00	400g Tub (ALEE214)
		5333670	WST1	ES5	1.60	250g Amber Jar (AL)
		5333668	WST1	ES3	0.80	250g Amber Jar (AL)
		5333666	WST1	ES1	0.10	250g Amber Jar (AL)
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 6				
PAH by GCMS	All	NDPs: 0 Tests: 25				
pH	All	NDPs: 0 Tests: 35				
Phenols by HPLC (S)	All	NDPs: 0 Tests: 24				
Sample description	All	NDPs: 1 Tests: 36				
Total Organic Carbon	All	NDPs: 5 Tests: 20				
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 5				
TPH c6-40 Value of soil	All	NDPs: 1 Tests: 27				



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SOLID	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	Results Legend									
<p><b>X</b> Test</p> <p><b>N</b> No Determination Possible</p>		5334195	WST5	ES5	1.80	400g Tub (ALEE214)				
		5334194	WST5	ES4	1.50	400g Tub (ALEE214)				
		5334191	WST5	ES1	0.25	250g Amber Jar (AL)				
		5480943	BHT4	B3	3.50	400g Tub (ALEE214)				
		5334190	WST3	ES9	2.90	400g Tub (ALEE214)				
		5334189	WST3	ES8	2.20	250g Amber Jar (AL)				
		5334187	WST3	ES6	1.60	400g Tub (ALEE214)				
		5334183	WST3	ES3	0.60	250g Amber Jar (AL)				
		5334181	WST3	ES1	0.10	400g Tub (ALEE214)				
		5490961	BHT2A	D5	6.20	250g Amber Jar (AL)				
	5490958	BHT2A	D4	3.00	BAG					
	5490957	BHT2A	D1	0.50	BAG					
	5490942	BHT2A	D7	8.50	400g Tub (ALEE214)					
Anions by Kone (soil)	All		NDPs: 0 Tests: 10							
Asbestos Identification (Soil)	All		NDPs: 0 Tests: 26							
Asbestos Quant. - Waste Limit*	All		NDPs: 0 Tests: 6							
Cyanide Comp/Free/Total/Thiocyanate	All		NDPs: 0 Tests: 24							
EPH CWG (Aliphatic) GC (S)	All		NDPs: 0 Tests: 2							
EPH CWG (Aromatic) GC (S)	All		NDPs: 0 Tests: 2							
GRO by GC-FID (S)	All		NDPs: 0 Tests: 2							
Loss on Ignition in soils	All		NDPs: 0 Tests: 1							
Magnesium (BRE)	All		NDPs: 0 Tests: 6							
Metals by iCap-OES (Soil)	Arsenic		NDPs: 0 Tests: 25							
	Cadmium		NDPs: 0 Tests: 25							
	Chromium		NDPs: 0 Tests: 25							
	Copper		NDPs: 0 Tests: 25							
	Lead		NDPs: 0 Tests: 25							
	Mercury		NDPs: 0 Tests: 25							

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SOLID			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
<b>Results Legend</b>  Test  No Determination Possible			5490942	BHT2A	D7	8.50	400g Tub (ALE214)
			5490961	BHT2A	D5	6.20	BAG
			5490958	BHT2A	D4	3.00	BAG
			5490957	BHT2A	D1	0.50	BAG
			5334181	WST3	ES1	0.10	250g Amber Jar (AL)
			5334183	WST3	ES3	0.60	400g Tub (ALE214)
			5334187	WST3	ES6	1.60	400g Tub (ALE214)
			5334189	WST3	ES8	2.20	400g Tub (ALE214)
			5334190	WST3	ES9	2.90	250g Amber Jar (AL)
			5490943	BHT4	B3	3.50	400g Tub (ALE214)
			5334191	WST5	ES1	0.25	400g Tub (ALE214)
			5334194	WST5	ES4	1.50	250g Amber Jar (AL)
			5334195	WST5	ES5	1.80	400g Tub (ALE214)
Metals by iCap-OES (Soil)	Nickel	NDPs: 0 Tests: 25					
			X	X	X	X	X
			X	X	X	X	X
	Selenium	NDPs: 0 Tests: 25					
			X	X	X	X	X
	Zinc	NDPs: 0 Tests: 25					
			X	X	X	X	X
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 6					
			X			X	X
PAH by GCMS	All	NDPs: 0 Tests: 25					
			X	X	X	X	X
pH	All	NDPs: 0 Tests: 35	X	X	X	X	X
			X	X	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 24					
			X	X	X	X	X
Sample description	All	NDPs: 1 Tests: 36	X	X	X	X	X
			X	X	X	X	X
Total Organic Carbon	All	NDPs: 5 Tests: 20					
			N				N
				X	X	X	X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 5					
			X				X
TPH c6-40 Value of soil	All	NDPs: 1 Tests: 27					
			X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 2					
						X	X





SDG: 120523-31  
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## 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
5333850	BHT4	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Crushed Brick
5333854	BHT4	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Crushed Brick
5333857	BHT4	4.00	Light Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
5490943	BHT4	3.50	Light Brown	Sand	0.063 - 0.1 mm	Stones	N/A
5333267	BHT2A	1.00	Light Brown	Sand	0.063 - 0.1 mm	Crushed Brick	Stones
5333269	BHT2A	2.00	Red	Sand	<0.063 mm	Brick	Fibres
5333271	BHT2A	3.00	Orange	Sand	0.1 - 2 mm	Stones	N/A
5490942	BHT2A	8.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	N/A	N/A
5490957	BHT2A	0.50	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Brick
5490958	BHT2A	3.00	Light Brown	Sand	0.1 - 2 mm	Stones	N/A
5490961	BHT2A	6.20	Dark Brown	Clay	<0.063 mm	None	None
5332755	FPT4	0.20	Dark Brown	Silt Loam	<0.063 mm	Brick	Stones
5332758	FPT4	0.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Glass & Stones	Brick
5332759	FPT4	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5333666	WST1	0.10	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Brick	Vegetation
5333668	WST1	0.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
5333670	WST1	1.60	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
5333671	WST1	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Stones
5333694	WST1	3.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
5334181	WST3	0.10	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
5334183	WST3	0.60	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
5334187	WST3	1.60	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Crushed Brick
5334189	WST3	2.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Crushed Brick
5334190	WST3	2.90	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
5333695	WST4	0.20	Light Brown	Silty Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
5333698	WST4	1.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Tile
5333699	WST4	1.60	Dark Brown	Sandy Clay	0.1 - 2 mm	Brick	Stones
5333700	WST4	2.00	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
5334191	WST5	0.25	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
5334194	WST5	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Crushed Brick
5334195	WST5	1.80	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
5332745	WST2A	0.10	Dark Brown	Silt Loam	0.063 - 0.1 mm	Brick	Stones
5332749	WST2A	1.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
5332751	WST2A	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Stones
5332752	WST2A	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
5332753	WST2A	3.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

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<b>SDG:</b>	120523-31	<b>Location:</b>	Redhill - Bourne Estate	<b>Order Number:</b>	
<b>Job:</b>	H_CAMREITH_REH-5	<b>Customer:</b>	Campbell Reith Hill	<b>Report Number:</b>	184055
<b>Client Reference:</b>		<b>Attention:</b>	Rhyadd Watkins	<b>Superseded Report:</b>	

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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 occurring 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: 120523-31  
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Location: Redhill - Bourne Estate  
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Order Number:  
 Report Number: 184055  
 Superseded Report:

Results Legend		Customer Sample R	BHT4	BHT4	BHT4	BHT4	BHT2A	BHT2A
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.50	2.50	3.50	4.00	0.50	1.00
\$	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		12/03/2012	12/03/2012	12/03/2012	12/03/2012	09/03/2012	09/03/2012
diss.filt	Dissolved / filtered sample.		.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
*	Subcontracted test.		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
**	% 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		5333850	5333854	5490943	5333857	5490957	5333267
(F)	Trigger breach confirmed		ES2	ES6	B3	ES9	D1	ES3
Component	LOD/Units		Method					
Waste Limit, Gravimetric - %*	<0.001 %	SUB (ASB)	<0.001 (F) #	<0.001 (F) #				
Waste Limit, PCOM evaluation - %*	<0.001 %	SUB (ASB)	0.002 #	0.005 #				
Waste Limit, Total - %*	<0.001 %	SUB (ASB)	0.002 #	0.005 #				
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 § M	<0.01 § M				<0.01 § M
Soil Organic Matter (SOM)	<0.35 %	TM132				<0.35 #		1 #
pH	1 pH Units	TM133	8.39 M	8.55 M	7.9 § M	8.69 M	8.7 § M	10.4 M
Cyanide, Total	<1 mg/kg	TM153	<1 § M	<1 § M				<1 § M
Cyanide, Free	<1 mg/kg	TM153	<1 § M	<1 § M				<1 § M
TPH >C6-C40	<10 mg/kg	TM154	145 #	378 #		<10 #		<10 #
Arsenic	<0.6 mg/kg	TM181	10.8 M	10.4 M		10.9 M		13 M
Cadmium	<0.02 mg/kg	TM181	<0.02 M	<0.02 M		0.134 M		0.286 M
Chromium	<0.9 mg/kg	TM181	16 M	15.8 M		21.4 M		20.8 M
Copper	<1.4 mg/kg	TM181	39.1 M	39.9 M		9.32 M		148 M
Lead	<0.7 mg/kg	TM181	193 M	267 M		10.5 M		674 M
Mercury	<0.14 mg/kg	TM181	1.21 M	1.03 M		<0.14 M		0.543 M
Nickel	<0.2 mg/kg	TM181	16.6 M	16.8 M		19.4 M		18.1 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #		<1 #		<1 #
Zinc	<1.9 mg/kg	TM181	63.4 M	58.9 M		26.2 M		254 M
Soluble Sulphate 2:1 extract as SO4 BRE	<0.003 g/l	TM243			0.0161 § M		0.084 § M	
Chloride 2:1 water/soil extract BRE	<0.001 g/l	TM243			0.0086 § M			
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243			0.143			
Magnesium (BRE)	<0.008 g/l	TM282			<0.008			
Soil Organic Matter (SOM)	<0.1 %	TM321	1.72 #	0.875 #				



<b>SDG:</b> 120523-31	<b>Location:</b> Redhill - Bourne Estate	<b>Order Number:</b>
<b>Job:</b> H_CAMREITH_REH-5	<b>Customer:</b> Campbell Reith Hill	<b>Report Number:</b> 184055
<b>Client Reference:</b>	<b>Attention:</b> Rhyadd Watkins	<b>Superseded Report:</b>

Results Legend		Customer Sample R	BHT2A	BHT2A	BHT2A	BHT2A	BHT2A	FPT4
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	BHT2A	BHT2A	BHT2A	BHT2A	BHT2A	FPT4
M	mCERTS accredited.		2.00	3.00	3.00	6.20	8.50	0.20
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		09/03/2012	09/03/2012	09/03/2012	09/03/2012	09/03/2012	08/03/2012
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
**	% 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	120523-31	120523-31	120523-31	120523-31	120523-31	120523-31	
(F)	Trigger breach confirmed	5333269	5333271	5490958	5490961	5490942	5332755	
		ES5	ES7	D4	D5	D7	ES1	
Component	LOD/Units	Method						
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 § M	<0.01 § M				<0.01 § M
Soil Organic Matter (SOM)	<0.35 %	TM132	1.27 #	<0.35 #				3.02 #
pH	1 pH Units	TM133	9.38 M	9.04 M	8.81 § M	7.69 § M	8.77 § M	7.82 M
Cyanide, Total	<1 mg/kg	TM153	<1 § M	<1 § M				<1 § M
Cyanide, Free	<1 mg/kg	TM153	<1 § M	<1 § M				<1 § M
TPH >C6-C40	<10 mg/kg	TM154	39.8 #	<10 #				211 #
Arsenic	<0.6 mg/kg	TM181	10.6 M	7.88 M				13.5 M
Cadmium	<0.02 mg/kg	TM181	0.234 M	0.133 M				0.505 M
Chromium	<0.9 mg/kg	TM181	15.7 M	6.74 M				28.1 M
Copper	<1.4 mg/kg	TM181	146 M	6.78 M				75.6 M
Lead	<0.7 mg/kg	TM181	785 M	6.58 M				200 M
Mercury	<0.14 mg/kg	TM181	0.707 M	<0.14 M				0.411 M
Nickel	<0.2 mg/kg	TM181	13.8 M	10.3 M				23.7 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #				<1 #
Zinc	<1.9 mg/kg	TM181	237 M	11.1 M				343 M
Soluble Sulphate 2:1 extract as SO4 BRE	<0.003 g/l	TM243			0.0043 § M	0.0525 § M	0.199 § M	
Chloride 2:1 water/soil extract BRE	<0.001 g/l	TM243				0.0081 § M		
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243				0.0032		
Magnesium (BRE)	<0.008 g/l	TM282				<0.008		

CERTIFICATE OF ANALYSIS

SDG: 120523-31
Job: H\_CAMREITH\_REH-5
Client Reference:

Location: Redhill - Bourne Estate
Customer: Campbell Reith Hill
Attention: Rhyadd Watkins

Order Number:
Report Number: 184055
Superseded Report:

Table with columns: Component, LOD/Units, Method, and sample data for FPT4, WST1, etc. Rows include Phenol, Soil Organic Matter (SOM), pH, Cyanide, TPH >C6-C40, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Soluble Sulphate, Chloride, Nitrate, Magnesium.

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

Results Legend		Customer Sample R	WST1	WST3	WST3	WST3	WST3	WST3	WST3	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.00	0.10	0.60	1.60	2.20	2.90		
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
S	Deviating sample.		06/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012	09/03/2012	
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									
Component	LOD/Units		Method							
Waste Limit, Gravimetric - %*	<0.001 %	SUB (ASB)		<0.001 (F)	#					
Waste Limit, PCOM evaluation - %*	<0.001 %	SUB (ASB)		<0.001						
Waste Limit, Total - %*	<0.001 %	SUB (ASB)		<0.001	#					
Loss on ignition	<0.7 %	TM018				6.54	M			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Soil Organic Matter (SOM)	<0.35 %	TM132	13.3		2.47	13.9	6.14	17.6		
pH	1 pH Units	TM133	7.99	8.38	8.38	8.29	6.94	7.09		
Cyanide, Total	<1 mg/kg	TM153	<1	<1	<1	<1	<1	<1		
Cyanide, Free	<1 mg/kg	TM153	<1	<1	<1	<1	<1	<1		
TPH >C6-C40	<10 mg/kg	TM154	146	133	168	188	214	3280		
Arsenic	<0.6 mg/kg	TM181	15.4	15.1	14.9	23.1	20.9	22.2		
Cadmium	<0.02 mg/kg	TM181	0.0313	0.184	0.314	0.196	<0.02	<0.02		
Chromium	<0.9 mg/kg	TM181	17.5	16.8	20.3	18.9	23.4	17.1		
Copper	<1.4 mg/kg	TM181	98.4	42.5	37.6	194	76.1	99.3		
Lead	<0.7 mg/kg	TM181	259	356	552	706	348	539		
Mercury	<0.14 mg/kg	TM181	1.7	1.18	0.889	4.49	7.81	14.5		
Nickel	<0.2 mg/kg	TM181	19.9	18.3	18.9	35.9	12.4	16.8		
Selenium	<1 mg/kg	TM181	<1	<1	<1	1.02	<1	<1		
Zinc	<1.9 mg/kg	TM181	91	170	179	338	71.6	132		
Soil Organic Matter (SOM)	<0.1 %	TM321		1.08	#					

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

Results Legend			Customer Sample R		WST4	WST4	WST4	WST4	WST5	WST5
#	ISO17025 accredited.		Depth (m)		0.20	1.40	1.60	2.00	0.25	1.50
M	mCERTS accredited.		Sample Type		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
\$	Deviating sample.		Date Sampled		06/03/2012	06/03/2012	06/03/2012	06/03/2012	08/03/2012	08/03/2012
aq	Aqueous / settled sample.		Sample Time		.	.	.	.	.	.
diss.filt	Dissolved / filtered sample.		Date Received		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
tot.unfilt	Total / unfiltered sample.		SDG Ref		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
*	Subcontracted test.		Lab Sample No.(s)		5333695	5333698	5333699	5333700	5334191	5334194
**	% 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		AGS Reference		ES1	ES4	ES5	ES6	ES1	ES4
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Waste Limit, Gravimetric - %*	<0.001 %	SUB (ASB)	<0.001 (F)	#	<0.001 (F)	#			<0.001 (F)	#
Waste Limit, PCOM evaluation - %*	<0.001 %	SUB (ASB)	<0.001		<0.001	#			<0.001	
Waste Limit, Total - %*	<0.001 %	SUB (ASB)	<0.001	#	<0.001	#			<0.001	#
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	\$ M	<0.01	\$ M	<0.01	\$ M	0.0324	\$ M
Soil Organic Matter (SOM)	<0.35 %	TM132			1.47	#	1.15	#		5.76
pH	1 pH Units	TM133	9	M	9.35	M	8.43	\$ M	8.33	M
Cyanide, Total	<1 mg/kg	TM153	<1	\$ M	<1	\$ M	<1	\$ M	<1	\$ M
Cyanide, Free	<1 mg/kg	TM153	<1	\$ M	<1	\$ M	<1	\$ M	<1	\$ M
TPH >C6-C40	<10 mg/kg	TM154	<10	#	112	\$ #	54.6	\$ #	3500	#
Arsenic	<0.6 mg/kg	TM181	15.6	M	15.4	M	10.4	M	12.9	M
Cadmium	<0.02 mg/kg	TM181	0.158	M	0.204	M	<0.02	M	<0.02	M
Chromium	<0.9 mg/kg	TM181	20.4	M	18.2	M	19.4	M	15.5	M
Copper	<1.4 mg/kg	TM181	87.5	M	53.3	M	31.3	M	20.2	M
Lead	<0.7 mg/kg	TM181	4550	M	11700	M	67.7	M	1360	M
Mercury	<0.14 mg/kg	TM181	1.61	M	0.684	M	0.481	M	0.338	M
Nickel	<0.2 mg/kg	TM181	17.1	M	11.3	M	16	M	13.1	M
Selenium	<1 mg/kg	TM181	<1	#	<1	#	<1	#	1.43	#
Zinc	<1.9 mg/kg	TM181	576	M	1150	M	53.9	M	147	M
Soluble Sulphate 2:1 extract as SO4 BRE	<0.003 g/l	TM243					0.0209	\$ M		
Chloride 2:1 water/soil extract BRE	<0.001 g/l	TM243					0.0024	\$ M		
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243					0.03			
Magnesium (BRE)	<0.008 g/l	TM282					<0.008			
Soil Organic Matter (SOM)	<0.1 %	TM321	1.01	#					1.85	#

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

Results Legend		Customer Sample R	WST5	WST2A	WST2A	WST2A	WST2A	WST2A
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		1.80	0.10	1.10	2.00	2.50	3.00
\$	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		08/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012
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		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
(F)	Trigger breach confirmed		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
			5334195	5332745	5332749	5332751	5332752	5332753
		ES5	ES1	ES4	ES6	ES7	ES8	
Component	LOD/Units	Method						
Phenol	<0.01 mg/kg	TM062 (S)		<0.01	<0.01	<0.01	<0.01	<0.01
Soil Organic Matter (SOM)	<0.35 %	TM132		7.48	7.4	3.21		22.2
pH	1 pH Units	TM133	8.16	8.52	8.49	8.19	7.58	8.03
Cyanide, Total	<1 mg/kg	TM153		<1	<1	<1		<1
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1		<1
TPH >C6-C40	<10 mg/kg	TM154		12.4	155	<10		339
Arsenic	<0.6 mg/kg	TM181		17.1	19.2	9.68		18
Cadmium	<0.02 mg/kg	TM181		0.0684	0.564	0.223		0.0689
Chromium	<0.9 mg/kg	TM181		17.7	19.6	11.8		13.7
Copper	<1.4 mg/kg	TM181		130	343	73.6		725
Lead	<0.7 mg/kg	TM181		460	407	129		418
Mercury	<0.14 mg/kg	TM181		1.98	1.52	0.9		2.3
Nickel	<0.2 mg/kg	TM181		21	20.3	15.5		20.2
Selenium	<1 mg/kg	TM181		<1	<1	<1		<1
Zinc	<1.9 mg/kg	TM181		127	510	58		250
Soluble Sulphate 2:1 extract as SO4 BRE	<0.003 g/l	TM243	0.126				0.71	
Chloride 2:1 water/soil extract BRE	<0.001 g/l	TM243	0.0056					
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243	0.109					
Magnesium (BRE)	<0.008 g/l	TM282	<0.008					





CERTIFICATE OF ANALYSIS

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

PAH by GCMS

Results Legend		Customer Sample R	BHT4	BHT4	BHT4	BHT2A	BHT2A	BHT2A
#	ISO17025 accredited.	<b>Depth (m)</b> <b>Sample Type</b> <b>Date Sampled</b> <b>Sample Time</b> <b>Date Received</b> <b>SDG Ref</b> <b>Lab Sample No.(s)</b> <b>AGS Reference</b>	BHT4	BHT4	BHT4	BHT2A	BHT2A	BHT2A
M	mCERTS accredited.		0.50	2.50	4.00	1.00	2.00	3.00
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		12/03/2012	12/03/2012	12/03/2012	09/03/2012	09/03/2012	09/03/2012
diss.filt	Dissolved / filtered sample.		.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
*	Subcontracted test.		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
**	% 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		5333850	5333854	5333857	5333267	5333269	5333271
(F)	Trigger breach confirmed		ES2	ES6	ES9	ES3	ES5	ES7
Component	LOD/Units		Method					
Naphthalene-d8 % recovery**	%	TM218	90	92.3	91.8	94.1	91	97.6
Acenaphthene-d10 % recovery**	%	TM218	87.1	91	90.8	90.7	92.3	97.8
Phenanthrene-d10 % recovery**	%	TM218	84.2	87.7	88.7	88	90.4	95.1
Chrysene-d12 % recovery**	%	TM218	82.4	81.6	85.8	84.6	90.1	89.5
Perylene-d12 % recovery**	%	TM218	78.3	77.9	86.8	80.6	97.8	88.7
Naphthalene	<9 µg/kg	TM218	152	34.5	21.9	157	<9	<9
Acenaphthylene	<12 µg/kg	TM218	28.5	<12	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	32	<8	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	46.3	25.5	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	466	183	<15	41.7	61.3	<15
Anthracene	<16 µg/kg	TM218	143	36.6	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	807	157	<17	41.6	57.5	<17
Pyrene	<15 µg/kg	TM218	670	144	<15	36.5	55	<15
Benz(a)anthracene	<14 µg/kg	TM218	386	81.4	<14	34.5	44.7	<14
Chrysene	<10 µg/kg	TM218	322	67	<10	21.2	41.2	<10
Benzo(b)fluoranthene	<15 µg/kg	TM218	387	65.2	<15	27.6	44	<15
Benzo(k)fluoranthene	<14 µg/kg	TM218	164	23.6	<14	<14	<14	<14
Benzo(a)pyrene	<15 µg/kg	TM218	319	50.4	<15	<15	18.9	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	170	31	<18	<18	<18	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	56.8	<23	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	200	50.5	<24	<24	<24	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4350	950	<118	360	323	<118



## CERTIFICATE OF ANALYSIS

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

## PAH by GCMS

Results Legend		Customer Sample R	FPT4	WST1	WST1	WST1	WST1	WST1	WST3
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.		0.20	0.10	0.80	2.00	3.00	0.10	
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
aq	Aqueous / settled sample.		08/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012	06/03/2012	
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		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	
(F)	Trigger breach confirmed		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31	
			5332755	5333666	5333668	5333671	5333694	5334181	
		ES1	ES1	ES3	ES6	ES9	ES1		
Component	LOD/Units	Method							
Naphthalene-d8 % recovery**	%	TM218	97.1	90.7	103	91.6	95	93.8	
Acenaphthene-d10 % recovery**	%	TM218	93.7	88.2	94.9	92.2	92.9	91.2	
Phenanthrene-d10 % recovery**	%	TM218	91	85.9	84.5	89.1	90	88.3	
Chrysene-d12 % recovery**	%	TM218	89.3	79.1	71.4	86.1	81.3	86.2	
Perylene-d12 % recovery**	%	TM218	86.3	80.4	70.1	87.2	80.1	82	
Naphthalene	<9 µg/kg	TM218	35.8	27.5	57.1	28.8	65.7	99.6	
Acenaphthylene	<12 µg/kg	TM218	37.8	15.4	<12	<12	<12	22.4	
Acenaphthene	<8 µg/kg	TM218	10.1	<8	<8	<8	<8	13.6	
Fluorene	<10 µg/kg	TM218	17.1	<10	<10	<10	<10	14	
Phenanthrene	<15 µg/kg	TM218	282	143	166	97.4	321	228	
Anthracene	<16 µg/kg	TM218	152	37.9	<16	<16	21.2	42.1	
Fluoranthene	<17 µg/kg	TM218	734	236	26.9	114	74.4	355	
Pyrene	<15 µg/kg	TM218	612	209	28.9	106	69	303	
Benz(a)anthracene	<14 µg/kg	TM218	376	158	36.7	82	73.4	209	
Chrysene	<10 µg/kg	TM218	402	134	46.9	69.6	96.4	196	
Benzo(b)fluoranthene	<15 µg/kg	TM218	585	250	40.6	109	103	292	
Benzo(k)fluoranthene	<14 µg/kg	TM218	216	71.5	<14	33.5	22.7	105	
Benzo(a)pyrene	<15 µg/kg	TM218	422	165	19.9	67.6	38.2	199	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	252	102	<18	45.4	28.7	143	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	70.2	30.1	<23	<23	<23	45	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	302	135	<24	63.1	58.4	190	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4510	1710	423	817	972	2460	



## CERTIFICATE OF ANALYSIS

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

## PAH by GCMS

Results Legend		Customer Sample R	WST3	WST3	WST3	WST3	WST4	WST4
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.60	1.60	2.20	2.90	0.20	1.40
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		06/03/2012	06/03/2012	06/03/2012	09/03/2012	06/03/2012	06/03/2012
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		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
(F)	Trigger breach confirmed		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
			5334183	5334187	5334189	5334190	5333695	5333698
		ES3	ES6	ES8	ES9	ES1	ES4	
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	93.8	95.9	102	98	106	99
Acenaphthene-d10 % recovery**	%	TM218	87.4	94.1	97.3	99.2	100	94.2
Phenanthrene-d10 % recovery**	%	TM218	86.7	89.7	95.6	96.5	99.2	90.8
Chrysene-d12 % recovery**	%	TM218	85.8	87.1	94.1	92.3	99.5	91.6
Perylene-d12 % recovery**	%	TM218	88.6	81.6	93.4	91.8	104	94
Naphthalene	<9 µg/kg	TM218	25.8	163	331	131	49.8	35.9
Acenaphthylene	<12 µg/kg	TM218	16.4	<12	<12	<12	19	20.9
Acenaphthene	<8 µg/kg	TM218	<8	<8	<8	<8	<8	<8
Fluorene	<10 µg/kg	TM218	<10	<10	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	87.2	454	604	935	111	98.6
Anthracene	<16 µg/kg	TM218	20.4	25.5	29.8	35.7	76.3	79.6
Fluoranthene	<17 µg/kg	TM218	165	67.8	103	260	148	152
Pyrene	<15 µg/kg	TM218	148	79.5	101	269	134	128
Benz(a)anthracene	<14 µg/kg	TM218	106	70.7	93.5	190	102	92.3
Chrysene	<10 µg/kg	TM218	123	146	160	310	107	82.1
Benzo(b)fluoranthene	<15 µg/kg	TM218	183	124	128	287	154	115
Benzo(k)fluoranthene	<14 µg/kg	TM218	77.9	31.3	35.8	94.2	47.7	46
Benzo(a)pyrene	<15 µg/kg	TM218	134	49.7	30.3	137	106	85.6
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	111	48.6	37.5	114	78.6	67.6
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	28.8	36.6	30.1	57.6	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	148	89.1	68.1	188	110	90.3
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1380	1390	1750	3010	1240	1090

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

PAH by GCMS

Results Legend		Customer Sample R	WST4	WST5	WST5	WST2A	WST2A	WST2A
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		2.00	0.25	1.50	0.10	1.10	2.00
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		06/03/2012	08/03/2012	08/03/2012	06/03/2012	06/03/2012	06/03/2012
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.		15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012	15/03/2012
**	% 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		120523-31	120523-31	120523-31	120523-31	120523-31	120523-31
(F)	Trigger breach confirmed		5333700	5334191	5334194	5332745	5332749	5332751
			ES6	ES1	ES4	ES1	ES4	ES6
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	96.8	98.7	98	94	94.8	91.9
Acenaphthene-d10 % recovery**	%	TM218	91.2	90.2	95.2	95.4	91.4	88.9
Phenanthrene-d10 % recovery**	%	TM218	88.5	90.8	95.5	93.8	89.2	85.7
Chrysene-d12 % recovery**	%	TM218	86.6	90.7	92.4	94.2	86.3	82.6
Perylene-d12 % recovery**	%	TM218	87.3	78.3	97.6	98.4	82.5	76.8
Naphthalene	<9 µg/kg	TM218	21.1	850	23.1	104	65.1	33.4
Acenaphthylene	<12 µg/kg	TM218	<12	1490	<12	<12	15	<12
Acenaphthene	<8 µg/kg	TM218	<8	7490	<8	<8	12.2	<8
Fluorene	<10 µg/kg	TM218	<10	10700	<10	<10	16.1	<10
Phenanthrene	<15 µg/kg	TM218	51.9	104000	233	397	262	61.8
Anthracene	<16 µg/kg	TM218	<16	32400	26.8	31	28.5	<16
Fluoranthene	<17 µg/kg	TM218	<17	120000	240	165	208	<17
Pyrene	<15 µg/kg	TM218	<15	87600	216	146	185	<15
Benz(a)anthracene	<14 µg/kg	TM218	29	40200	132	122	111	22.9
Chrysene	<10 µg/kg	TM218	20.5	34100	147	167	154	17.6
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	37800	160	179	194	24
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	18500	56.7	51.7	62.9	<14
Benzo(a)pyrene	<15 µg/kg	TM218	<15	32200	117	105	129	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	15700	77.7	72.6	85.2	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	4840	<23	32.6	32.1	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	17800	109	121	122	<24
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	122	566000	1540	1700	1680	160



CERTIFICATE OF ANALYSIS

SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

PAH by GCMS

Results Legend		Customer Sample R	WST2A					
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.00 Soil/Solid 06/03/2012 15/03/2012 120523-31 5332753 ES8					
M	mCERTS accredited.							
S	Deviating sample.							
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							
Component	LOD/Units			Method				
Naphthalene-d8 % recovery**	%	TM218	85.2	\$				
Acenaphthene-d10 % recovery**	%	TM218	85.4	\$				
Phenanthrene-d10 % recovery**	%	TM218	83.5	\$				
Chrysene-d12 % recovery**	%	TM218	81.2	\$				
Perylene-d12 % recovery**	%	TM218	86	\$				
Naphthalene	<9 µg/kg	TM218	65.4	\$ M				
Acenaphthylene	<12 µg/kg	TM218	<12	\$ M				
Acenaphthene	<8 µg/kg	TM218	<8	\$ M				
Fluorene	<10 µg/kg	TM218	18.1	\$ M				
Phenanthrene	<15 µg/kg	TM218	215	\$ M				
Anthracene	<16 µg/kg	TM218	46.8	\$ M				
Fluoranthene	<17 µg/kg	TM218	160	\$ M				
Pyrene	<15 µg/kg	TM218	169	\$ M				
Benz(a)anthracene	<14 µg/kg	TM218	177	\$ M				
Chrysene	<10 µg/kg	TM218	166	\$ M				
Benzo(b)fluoranthene	<15 µg/kg	TM218	228	\$ M				
Benzo(k)fluoranthene	<14 µg/kg	TM218	73.1	\$ M				
Benzo(a)pyrene	<15 µg/kg	TM218	146	\$ M				
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	87.6	\$ M				
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	43.1	\$ M				
Benzo(g,h,i)perylene	<24 µg/kg	TM218	137	\$ M				
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1730	\$				



SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

## TPH CWG (S)

Results Legend		Customer Sample R	WST3	WST5				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		2.90	0.25				
S	Deviating sample.		Soil/Solid	Soil/Solid				
aq	Aqueous / settled sample.		09/03/2012	08/03/2012				
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		15/03/2012	15/03/2012				
(F)	Trigger breach confirmed		120523-31	120523-31				
			5334190	5334191				
		ES9	ES1					
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	32	57				
GRO >C5-C12	<44 µg/kg	TM089	<44	<44				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5				
Benzene	<10 µg/kg	TM089	<10	<10	#	#		
Toluene	<2 µg/kg	TM089	<2	<2	M	M		
Ethylbenzene	<3 µg/kg	TM089	<3	<3	M	M		
m,p-Xylene	<6 µg/kg	TM089	<6	<6	M	M		
o-Xylene	<3 µg/kg	TM089	<3	<3	M	M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10				
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10				
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10				
Aliphatics >C12-C16	<100 µg/kg	TM173	16300	9470				
Aliphatics >C16-C21	<100 µg/kg	TM173	6710	21200				
Aliphatics >C21-C35	<100 µg/kg	TM173	14200	90000				
Aliphatics >C35-C44	<100 µg/kg	TM173	2750	111000				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	40000	232000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10				
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10				
Aromatics >EC12-EC16	<100 µg/kg	TM173	13200	85700				
Aromatics >EC16-EC21	<100 µg/kg	TM173	12000	752000				
Aromatics >EC21-EC35	<100 µg/kg	TM173	32500	1350000				
Aromatics >EC35-EC44	<100 µg/kg	TM173	12800	655000				
Aromatics >EC40-EC44	<100 µg/kg	TM173	5350	282000				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	70500	2850000				
Total Aliphatics >C5-35	<100 µg/kg	TM173	37300	121000				
Total Aromatics >C5-35	<100 µg/kg	TM173	57700	2190000				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	94900	2310000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	111000	3080000				



SDG: 120523-31  
 Job: H\_CAMREITH\_REH-5  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 184055  
 Superseded Report:

### Asbestos Identification - Bulk

Date of Analysis	Analysed by	Comments	Actinolite, Fibrous	Anthophyllite, Fibrous	Asbestos, Amosite (brown)	Asbestos, Chrysotile (white)	Asbestos, Crocidolite (blue)	Non-asbestos fibre	Tremolite, Fibrous
24/4/12	Martin Cotterell	Typical of asbestos cement	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected	Not Detected (#)
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST4 ES 4 1.40 SOLID 06/03/2012 00:00:00 17/03/2012 11:13:33 120523-31 5333698 TM048								

### Asbestos Identification - Soil

Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
27/04/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
05/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
04/04/12	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT2A D 1 0.50 SOLID 09/03/2012 00:00:00 120523-31 5490957 TM048								
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT2A ES 3 1.00 SOLID 09/03/2012 00:00:00 120523-31 5333267 TM048								
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT2A ES 5 2.00 SOLID 120523-31 5333269 TM048								



**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**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
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT2A ES 7 3.00 SOLID 09/03/2012 00:00:00  120523-31 5333271 TM048	04/04/12	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT2A ES 2 0.50 SOLID 12/03/2012 00:00:00  120523-31 5333850 TM048	05/04/12	Paul Poynton	Loose fibres in soil.	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BHT4 ES 6 2.50 SOLID 12/03/2012 00:00:00  120523-31 5333854 TM048	04/04/12	Martin Cotterell	Loose fibres in soil.	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT4 ES 1 0.20 SOLID 08/03/2012 00:00:00  120523-31 5332755 TM048	04/05/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST1 ES 1 0.10 SOLID 06/03/2012 00:00:00  120523-31 5333666 TM048	05/04/12	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST1 ES 3 0.80 SOLID 06/03/2012 00:00:00  120523-31 5333668 TM048	05/04/12	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected





**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**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
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST1 ES 6 2.00 SOLID 06/03/2012 00:00:00  120523-31 5333671 TM048	05/04/12	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST1 ES 9 3.00 SOLID 06/03/2012 00:00:00  120523-31 5333694 TM048	05/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST2A ES 1 0.10 SOLID 06/03/2012 00:00:00  120523-31 5332745 TM048	04/05/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST2A ES 4 1.10 SOLID 06/03/2012 00:00:00  120523-31 5332749 TM048	04/05/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST2A ES 6 2.00 SOLID 06/03/2012 00:00:00  120523-31 5332751 TM048	05/04/12	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST2A ES 8 3.00 SOLID 06/03/2012 00:00:00  120523-31 5332753 TM048	05/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**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
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST3 ES 1 0.10 SOLID 06/03/2012 00:00:00  120523-31 5334181 TM048	04/04/12	Martin Cotterell	Loose fibres in soil.	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST3 ES 3 0.60 SOLID 06/03/2012 00:00:00  120523-31 5334183 TM048	04/04/12	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST3 ES 6 1.60 SOLID 06/03/2012 00:00:00  120523-31 5334187 TM048	04/05/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST3 ES 8 2.20 SOLID 06/03/2012 00:00:00  120523-31 5334189 TM048	05/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST3 ES 9 2.90 SOLID 09/03/2012 00:00:00  120523-31 5334190 TM048	04/04/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST4 ES 1 0.20 SOLID 06/03/2012 00:00:00  120523-31 5333695 TM048	05/04/12	Martin Cotterell	Loose fibres in soil.	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**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
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST4 ES 4 1.40 SOLID 06/03/2012 00:00:00  120523-31 5333698 TM048	04/04/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST4 ES 5 1.60 SOLID 06/03/2012 00:00:00  120523-31 5333699 TM048	30/04/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST4 ES 6 2.00 SOLID 06/03/2012 00:00:00  120523-31 5333700 TM048	05/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST5 ES 1 0.25 SOLID 08/03/2012 00:00:00  120523-31 5334191 TM048	05/04/12	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	WST5 ES 4 1.50 SOLID 08/03/2012 00:00:00  120523-31 5334194 TM048	04/05/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

## Notification of Deviating Samples

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5386222	BHT4 ES9	4.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5395161	WST2A ES4	1.10	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5395176	WST2A ES4	1.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5395176	WST2A ES4	1.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5395223	WST2A ES4	1.10	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5395301	WST2A ES6	2.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5395315	WST2A ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5395315	WST2A ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5395347	WST2A ES6	2.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5395435	WST2A ES8	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5395435	WST2A ES8	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5395480	WST2A ES8	3.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5396129	WST2A ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5396129	WST2A ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5396152	WST2A ES1	0.10	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5396213	FPT4 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5396213	FPT4 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5396280	FPT4 ES1	0.20	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5400051	WST4 ES1	0.20	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded



## CERTIFICATE OF ANALYSIS

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5400064	WST4 ES4	1.40	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5400122	WST4 ES6	2.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5401025	WST1 ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5401025	WST1 ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5401030	WST1 ES1	0.10	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5401037	WST1 ES3	0.80	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5401037	WST1 ES3	0.80	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5401045	WST1 ES3	0.80	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5401293	FPT4 ES1	0.20	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded



## CERTIFICATE OF ANALYSIS

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5401456	WST3 ES3	0.60	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5401531	WST3 ES6	1.60	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5401531	WST3 ES6	1.60	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5401534	WST5 ES1	0.25	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5401553	WST3 ES6	1.60	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded

## CERTIFICATE OF ANALYSIS

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5401590	WST3 ES8	2.20	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5401660	WST5 ES4	1.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5401660	WST5 ES4	1.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5401685	WST5 ES4	1.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5401973	WST3 ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5401973	WST3 ES1	0.10	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402014	WST3 ES1	0.10	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402109	WST3 ES3	0.60	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402109	WST3 ES3	0.60	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402126	WST3 ES3	0.60	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402184	WST3 ES8	2.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402184	WST3 ES8	2.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402209	WST3 ES8	2.20	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402212	BHT4 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402212	BHT4 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402244	BHT4 ES2	0.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402262	WST3 ES9	2.90	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402262	WST3 ES9	2.90	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402267	BHT4 ES6	2.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402267	BHT4 ES6	2.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402282	WST3 ES9	2.90	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402292	BHT4 ES6	2.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402320	WST5 ES1	0.25	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402320	WST5 ES1	0.25	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402331	WST5 ES1	0.25	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5402710	BHT2A ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5402710	BHT2A ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5402723	BHT2A ES3	1.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403060	WST4 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403060	WST4 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403085	WST4 ES1	0.20	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403097	WST4 ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403097	WST4 ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403129	WST4 ES6	2.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403153	WST1 ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403153	WST1 ES6	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403167	WST1 ES6	2.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403545	WST4 ES4	1.40	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403545	WST4 ES4	1.40	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403555	BHT2A ES5	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403555	BHT2A ES5	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403586	WST4 ES4	1.40	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403658	BHT2A ES5	2.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5403862	BHT2A ES7	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5403862	BHT2A ES7	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5403897	BHT2A ES7	3.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded



**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5405721	BHT2A ES3	1.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5405924	BHT4 ES2	0.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5405967	WST3 ES1	0.10	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5411351	WST1 ES9	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5411351	WST1 ES9	3.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5411382	WST1 ES9	3.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded



## CERTIFICATE OF ANALYSIS

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5417440	WST2A ES1	0.10	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5417457	WST2A ES4	1.10	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5417473	WST2A ES6	2.00	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5417493	WST2A ES8	3.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418191	BHT2A ES5	2.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418200	BHT2A ES7	3.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418232	WST3 ES9	2.90	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418239	WST5 ES4	1.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418647	WST4 ES4	1.40	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5419033	WST1 ES9	3.00	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5419100	WST1 ES6	2.00	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5419261	WST4 ES6	2.00	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5419268	BHT4 ES6	2.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5440007	WST2A ES8	3.00	SOLID	TPH c6-40 Value of soil	TPH >C6-C40	Sample holding time exceeded
5498376	BHT2A D5	6.20	SOLID	pH	pH	Sample holding time exceeded
5498438	FPT4 ES3	1.00	SOLID	pH	pH	Sample holding time exceeded
5498451	WST4 ES5	1.60	SOLID	pH	pH	Sample holding time exceeded
5498476	WST5 ES5	1.80	SOLID	pH	pH	Sample holding time exceeded
5498516	BHT4 B3	3.50	SOLID	pH	pH	Sample holding time exceeded
5498533	BHT2A D7	8.50	SOLID	pH	pH	Sample holding time exceeded
5498616	WST1 ES5	1.60	SOLID	pH	pH	Sample holding time exceeded
5498723	BHT2A D4	3.00	SOLID	pH	pH	Sample holding time exceeded
5500757	BHT2A D1	0.50	SOLID	pH	pH	Sample holding time exceeded
5503660	BHT2A	6.20	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5503660	BHT2A	6.20	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5504107	BHT2A	3.00	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5504623	BHT2A	8.50	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5504635	BHT4	3.50	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5504635	BHT4	3.50	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5505915	WST5 ES5	1.80	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5505915	WST5 ES5	1.80	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5505940	WST1 ES5	1.60	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5505940	WST1 ES5	1.60	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5505954	FPT4 ES3	1.00	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5505954	FPT4 ES3	1.00	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5520897	BHT2A	0.50	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded
5524445	WST4 ES5	1.60	SOLID	Anions by Kone (soil)	Chloride 2:1 water/soil extract BRE	Sample holding time exceeded
5524445	WST4 ES5	1.60	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded



CERTIFICATE OF ANALYSIS

Validated

<b>SDG:</b> 120523-31	<b>Location:</b> Redhill - Bourne Estate	<b>Order Number:</b>
<b>Job:</b> H_CAMREITH_REH-5	<b>Customer:</b> Campbell Reith Hill	<b>Report Number:</b> 184055
<b>Client Reference:</b>	<b>Attention:</b> Rhyadd Watkins	<b>Superseded Report:</b>

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5676867	WST2A ES7	2.50	SOLID	pH	pH	Sample holding time exceeded
5688939	WST2A	2.50	SOLID	Anions by Kone (soil)	Soluble Sulphate 2:1 extract as SO4 BRE	Sample holding time exceeded

Note : Test results may be compromised



**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

### Notification of NDPs (No determination possible)

Date Received : 23/05/2012 10:20:44

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
5333695	WST4 ES1	0.20	Total Organic Carbon	Test unsuitable for analysis - Asbestos
5333850	BHT4 ES2	0.50	Total Organic Carbon	Test unsuitable for analysis - Asbestos
5333854	BHT4 ES6	2.50	Total Organic Carbon	Test unsuitable for analysis - Asbestos
5334181	WST3 ES1	0.10	Total Organic Carbon	Test unsuitable for analysis - Asbestos
5334191	WST5 ES1	0.25	Total Organic Carbon	Test unsuitable for analysis - Asbestos
5332758	FPT4 ES2	0.50	TPH c6-40 Value of soil	Insufficient Sample
5332758	FPT4 ES2	0.50	Sample description	Insufficient Sample

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

## Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
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)				
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC		
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		
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser		
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40		
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		
TM243		Mixed Anions In Soils By Kone		
TM282		Extraction of Magnesium by BRE Method		
TM321		Organic matter Content of Soil By Titration		

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

**Test Completion Dates**

Lab Sample No(s) Customer Sample Ref.	5333850	5333854	5333857	5490943	5333267	5333269	5333271	5490942	5490957	5490958
	BHT4	BHT4	BHT4	BHT4	BHT2A	BHT2A	BHT2A	BHT2A	BHT2A	BHT2A
AGS Ref.	ES2	ES6	ES9	B3	ES3	ES5	ES7	D7	D1	D4
Depth	0.50	2.50	4.00	3.50	1.00	2.00	3.00	8.50	0.50	3.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)				30-Apr-2012				30-Apr-2012	01-May-2012	30-Apr-2012
Asbestos Identification (Soil)	05-Apr-2012	04-Apr-2012			05-Apr-2012	04-Apr-2012	04-Apr-2012		27-Apr-2012	
Asbestos Quant. - Waste Limit*	04-May-2012	04-May-2012								
Cyanide Comp/Free/Total/Thiocyanate	06-Apr-2012	06-Apr-2012			05-Apr-2012	05-Apr-2012	05-Apr-2012			
Magnesium (BRE)				27-Apr-2012						
Metals by iCap-OES (Soil)	05-Apr-2012	05-Apr-2012	03-Apr-2012		05-Apr-2012	05-Apr-2012	05-Apr-2012			
NO3, NO2 and TON by KONE (s)				01-May-2012						
PAH by GCMS	05-Apr-2012	08-Apr-2012	05-Apr-2012		05-Apr-2012	10-Apr-2012	10-Apr-2012			
pH	05-Apr-2012	05-Apr-2012	04-Apr-2012	27-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	27-Apr-2012	30-Apr-2012	27-Apr-2012
Phenols by HPLC (S)	05-Apr-2012	05-Apr-2012			05-Apr-2012	05-Apr-2012	05-Apr-2012			
Sample description	03-Apr-2012	03-Apr-2012	30-Mar-2012	25-Apr-2012	02-Apr-2012	02-Apr-2012	02-Apr-2012	25-Apr-2012	25-Apr-2012	25-Apr-2012
Total Organic Carbon			03-Apr-2012		10-Apr-2012	10-Apr-2012	10-Apr-2012			
Total Organic Carbon (Asb)	10-Apr-2012	10-Apr-2012								
TPH c6-40 Value of soil	26-Apr-2012	26-Apr-2012	04-Apr-2012		05-Apr-2012	25-Apr-2012	05-Apr-2012			

Lab Sample No(s) Customer Sample Ref.	5490961	5332755	5332758	5332759	5333666	5333668	5333670	5333671	5333694	5334181
	BHT2A	FPT4	FPT4	FPT4	WST1	WST1	WST1	WST1	WST1	WST3
AGS Ref.	D5	ES1	ES2	ES3	ES1	ES3	ES5	ES6	ES9	ES1
Depth	6.20	0.20	0.50	1.00	0.10	0.80	1.60	2.00	3.00	0.10
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)	30-Apr-2012			30-Apr-2012			30-Apr-2012			
Asbestos Identification (Soil)		04-Apr-2012			05-Apr-2012	05-Apr-2012		05-Apr-2012	05-Apr-2012	04-Apr-2012
Asbestos Quant. - Waste Limit*										04-May-2012
Cyanide Comp/Free/Total/Thiocyanate		04-Apr-2012			04-Apr-2012	04-Apr-2012		06-Apr-2012	06-Apr-2012	05-Apr-2012
Magnesium (BRE)	27-Apr-2012			01-May-2012			01-May-2012			
Metals by iCap-OES (Soil)		06-Apr-2012			26-Apr-2012	05-Apr-2012		05-Apr-2012	05-Apr-2012	05-Apr-2012
NO3, NO2 and TON by KONE (s)	01-May-2012			01-May-2012			01-May-2012			
PAH by GCMS		05-Apr-2012			08-Apr-2012	08-Apr-2012		08-Apr-2012	08-Apr-2012	05-Apr-2012
pH	27-Apr-2012	05-Apr-2012		27-Apr-2012	05-Apr-2012	05-Apr-2012	27-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012
Phenols by HPLC (S)		05-Apr-2012			04-Apr-2012	05-Apr-2012		05-Apr-2012	10-Apr-2012	05-Apr-2012
Sample description	25-Apr-2012	03-Apr-2012	01-May-2012	25-Apr-2012	02-Apr-2012	02-Apr-2012	25-Apr-2012	02-Apr-2012	02-Apr-2012	03-Apr-2012
Total Organic Carbon		10-Apr-2012			10-Apr-2012	11-Apr-2012		11-Apr-2012	11-Apr-2012	
Total Organic Carbon (Asb)										10-Apr-2012
TPH c6-40 Value of soil		05-Apr-2012	04-May-2012		26-Apr-2012	05-Apr-2012		25-Apr-2012	25-Apr-2012	26-Apr-2012

Lab Sample No(s) Customer Sample Ref.	5334183	5334187	5334189	5334190	5333695	5333698	5333699	5333700	5334191	5334194
	WST3	WST3	WST3	WST3	WST4	WST4	WST4	WST4	WST5	WST5
AGS Ref.	ES3	ES6	ES8	ES9	ES1	ES4	ES5	ES6	ES1	ES4
Depth	0.60	1.60	2.20	2.90	0.20	1.40	1.60	2.00	0.25	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)							02-May-2012			
Asbestos Identification						24-Apr-2012				
Asbestos Identification (Soil)	04-Apr-2012	04-Apr-2012	05-Apr-2012	04-Apr-2012	05-Apr-2012	04-Apr-2012	30-Apr-2012	05-Apr-2012	05-Apr-2012	04-Apr-2012
Asbestos Quant. - Waste Limit*					04-May-2012	04-May-2012			04-May-2012	
Cyanide Comp/Free/Total/Thiocyanate	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	06-Apr-2012	07-Apr-2012		06-Apr-2012	05-Apr-2012	05-Apr-2012
EPH CWG (Aliphatic) GC (S)				25-Apr-2012					27-Apr-2012	
EPH CWG (Aromatic) GC (S)				25-Apr-2012					27-Apr-2012	
GRO by GC-FID (S)				26-Apr-2012					26-Apr-2012	
Loss on Ignition in soils		30-Apr-2012								
Magnesium (BRE)							01-May-2012			
Metals by iCap-OES (Soil)	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	27-Apr-2012	25-Apr-2012		05-Apr-2012	26-Apr-2012	05-Apr-2012
NO3, NO2 and TON by KONE (s)							01-May-2012			
PAH by GCMS	05-Apr-2012	05-Apr-2012	05-Apr-2012	10-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012	05-Apr-2012	10-Apr-2012
pH	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	30-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012
Phenols by HPLC (S)	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012	05-Apr-2012	05-Apr-2012
Sample description	03-Apr-2012	03-Apr-2012	03-Apr-2012	03-Apr-2012	02-Apr-2012	24-Apr-2012	26-Apr-2012	02-Apr-2012	03-Apr-2012	03-Apr-2012
Total Organic Carbon	11-Apr-2012	11-Apr-2012	10-Apr-2012	10-Apr-2012		10-Apr-2012		11-Apr-2012		10-Apr-2012
Total Organic Carbon (Asb)					10-Apr-2012				10-Apr-2012	
TPH c6-40 Value of soil	26-Apr-2012	26-Apr-2012	25-Apr-2012	04-Apr-2012	05-Apr-2012	30-Apr-2012		11-Apr-2012	05-Apr-2012	04-Apr-2012
TPH CWG GC (S)				26-Apr-2012					27-Apr-2012	





**SDG:** 120523-31  
**Job:** H\_CAMREITH\_REH-5  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 184055  
**Superseded Report:**

Lab Sample No(s)	5334195	5332745	5332749	5332751	5332752	5332753
<b>Customer Sample Ref.</b>	WST5	WST2A	WST2A	WST2A	WST2A	WST2A
<b>AGS Ref.</b>	ES5	ES1	ES4	ES6	ES7	ES8
<b>Depth</b>	1.80	0.10	1.10	2.00	2.50	3.00
<b>Type</b>	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)	30-Apr-2012				08-Jun-2012	
Asbestos Identification (Soil)		04-Apr-2012	04-Apr-2012	05-Apr-2012		05-Apr-2012
Cyanide Comp/Free/Total/Thiocyanate		04-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012
Magnesium (BRE)	01-May-2012					
Metals by iCap-OES (Soil)		06-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012
NO3, NO2 and TON by KONE (s)	01-May-2012					
PAH by GCMS		10-Apr-2012	05-Apr-2012	05-Apr-2012		10-Apr-2012
pH	27-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	08-Jun-2012	05-Apr-2012
Phenols by HPLC (S)		05-Apr-2012	05-Apr-2012	05-Apr-2012		04-Apr-2012
Sample description	25-Apr-2012	03-Apr-2012	02-Apr-2012	02-Apr-2012	01-Jun-2012	02-Apr-2012
Total Organic Carbon		10-Apr-2012	10-Apr-2012	10-Apr-2012		10-Apr-2012
TPH c6-40 Value of soil		05-Apr-2012	25-Apr-2012	11-Apr-2012		25-Apr-2012





Campbell Reith Hill  
Somerset House  
47-49 London Road  
Redhill  
Surrey  
RH1 1LV

**Attention:** Rhyadd Watkins

## CERTIFICATE OF ANALYSIS

**Date:** 11 June 2012  
**Customer:** H\_CAMREITH\_REH  
**Sample Delivery Group (SDG):** 120522-27  
**Your Reference:**  
**Location:** Redhill - Bourne Estate  
**Report No:** 183790

**This report has been revised and directly supersedes 181854 in its entirety.**

We received 27 samples on Saturday March 10, 2012 and 10 of these samples were scheduled for analysis which was completed on Monday June 11, 2012. 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





**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

## Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5308469	BH T1	ES1	0.15	08/03/2012
5308471	BH T1	ES2	0.30	08/03/2012
5308473	BH T1	ES3	0.50	08/03/2012
5308475	BH T1	ES4	0.75	08/03/2012
5308477	BH T1	ES5	1.00	08/03/2012
5308478	BH T1	ES6	1.50	08/03/2012
5308479	BH T1	ES7	2.00	08/03/2012
5308480	BH T1	ES8	2.50	08/03/2012
5308481	BH T1	ES9	3.00	08/03/2012
5308482	BH T1	ES10	3.50	08/03/2012
5308483	BH T1	ES11	4.00	08/03/2012
5308484	BH T1	ES12	4.50	08/03/2012
5308485	BH T1	ES13	5.25	08/03/2012
5308458	FPT 2	ES1	0.20	08/03/2012
5308460	FPT 2	ES2	0.50	08/03/2012
5308462	FPT 2	ES3	1.00	08/03/2012
5308464	FPT 3	ES1	0.20	08/03/2012
5308465	FPT 3	ES2	0.50	08/03/2012
5308466	FPT 3	ES3	0.80	08/03/2012
5308467	FPT 3	ES4	1.00	08/03/2012
5308468	FPT 3	ES5	1.50	08/03/2012
5308455	FPT 5	ES1	0.20	08/03/2012
5308456	FPT 5	ES2	0.50	08/03/2012
5308457	FPT 5	ES3	1.00	08/03/2012
5308449	FPT 7	ES1	0.20	08/03/2012
5308450	FPT 7	ES2	0.50	08/03/2012
5308451	FPT 7	ES3	1.00	08/03/2012

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



SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

SOLID Results Legend  <span style="background-color: yellow; border: 1px solid black; padding: 2px;">X</span> Test <span style="background-color: red; color: white; border: 1px solid black; padding: 2px;">N</span> No Determination Possible	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	
		5308473	BH T1	ES3	0.50	250g Amber jar (AL)
		5308479	BH T1	ES7	2.00	400g Tub (ALEE14)
		5308481	BH T1	ES9	3.00	250g Amber jar (AL)
		5308484	BH T1	ES12	4.50	400g Tub (ALEE14)
	5308460	FPT 2	ES2	0.50	250g Amber jar (AL)	
	5308464	FPT 3	ES1	0.20	400g Tub (ALEE14)	
	5308465	FPT 3	ES2	0.50	400g Tub (ALEE14)	
	5308456	FPT 5	ES2	0.50	250g Amber jar (AL)	
	5308457	FPT 5	ES3	1.00	400g Tub (ALEE14)	
	5308451	FPT 7	ES3	1.00	250g Amber jar (AL)	
Anions by Kone (soil)	All	NDPs: 0 Tests: 1				
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 7				
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 7				
Magnesium (BRE)	All	NDPs: 0 Tests: 1				
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 9				
	Cadmium	NDPs: 0 Tests: 9				
	Chromium	NDPs: 0 Tests: 9				
	Copper	NDPs: 0 Tests: 9				
	Lead	NDPs: 0 Tests: 9				
	Mercury	NDPs: 0 Tests: 9				
	Nickel	NDPs: 0 Tests: 9				
	Selenium	NDPs: 0 Tests: 9				
	Zinc	NDPs: 0 Tests: 9				
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 1				
PAH by GCMS	All	NDPs: 0 Tests: 9				



SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

SOLID Results Legend  <input checked="" type="checkbox"/> Test  <input checked="" type="checkbox"/> No Determination Possible	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	
		5308473	BH T1	ES3	0.50	250g Amber Jar (AL)
		5308479	BH T1	ES7	2.00	250g Amber Jar (AL)
		5308481	BH T1	ES9	3.00	400g Tub (ALE214)
		5308484	BH T1	ES12	4.50	400g Tub (ALE214)
		5308460	FPT 2	ES2	0.50	250g Amber Jar (AL)
	5308464	FPT 3	ES1	0.20	400g Tub (ALE214)	
	5308465	FPT 3	ES2	0.50	250g Amber Jar (AL)	
	5308456	FPT 5	ES2	0.50	400g Tub (ALE214)	
	5308457	FPT 5	ES3	1.00	250g Amber Jar (AL)	
	5308451	FPT 7	ES3	1.00	400g Tub (ALE214)	
pH	All	NDPs: 0 Tests: 10				
					X X X X X X X X X X	
Phenols by HPLC (S)	All	NDPs: 0 Tests: 7				
					X X X X X X X X	
Sample description	All	NDPs: 0 Tests: 10				
					X X X X X X X X X X	
Total Organic Carbon	All	NDPs: 0 Tests: 9				
					X X X X X X X X X X	
TPH c6-40 Value of soil	All	NDPs: 0 Tests: 9				
					X X X X X X X X X X	



SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

## Sample Descriptions

### Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
5308473	BH T1	0.50	Light Brown	Loamy Sand	0.1 - 2 mm	Brick	Stones
5308479	BH T1	2.00	Light Brown	Sand	0.1 - 2 mm	Crushed Brick	Stones
5308481	BH T1	3.00	Light Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
5308484	BH T1	4.50	Light Brown	Sand	0.1 - 2 mm	Stones	None
5308460	FPT 2	0.50	Light Brown	Silty Sand	0.1 - 2 mm	Stones	N/A
5308464	FPT 3	0.20	Dark Brown	N/A	0.063 - 0.1 mm	Crystalline Material	N/A
5308465	FPT 3	0.50	Light Brown	Sand	0.063 - 0.1 mm	Brick	Stones
5308456	FPT 5	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Crushed Brick
5308457	FPT 5	1.00	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
5308451	FPT 7	1.00	Light Brown	Sandy Loam	0.1 - 2 mm	Brick	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 occurring 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

Validated

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

Results Legend		Customer Sample R		BH T1	BH T1	BH T1	BH T1	FPT 2	FPT 3
#	ISO17025 accredited.	<b>Depth (m)</b> <b>Sample Type</b> <b>Date Sampled</b> <b>Sample Time</b> <b>Date Received</b> <b>SDG Ref</b> <b>Lab Sample No.(s)</b> <b>AGS Reference</b>	BH T1	BH T1	BH T1	BH T1	FPT 2	FPT 3	
M	mCERTS accredited.		0.50	2.00	3.00	4.50	0.50	0.20	
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
aq	Aqueous / settled sample.		08/03/2012	08/03/2012	08/03/2012	08/03/2012	08/03/2012	08/03/2012	
diss.filt	Dissolved / filtered sample.		.	.	.	.	.	.	
tot.unfilt	Total / unfiltered sample.		10/03/2012	10/03/2012	10/03/2012	10/03/2012	10/03/2012	10/03/2012	
*	Subcontracted test.		120522-27	120522-27	120522-27	120522-27	120522-27	120522-27	
**	% 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		5308473	5308479	5308481	5308484	5308460	5308464	
(F)	Trigger breach confirmed		ES3	ES7	ES9	ES12	ES2	ES1	
Component	LOD/Units		Method						
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 § M	<0.01 § M			<0.01 § M	<0.01 § #	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.62 #	24.3 #	<0.35 #	<0.35 #	3.78 #	18.4 #	
pH	1 pH Units	TM133	10.2 M	8.33 M	9.07 M	8.07 M	8.58 M	8.44 #	
Cyanide, Total	<1 mg/kg	TM153	<1 § M	<1 § M			<1 § M	<1 § #	
Cyanide, Free	<1 mg/kg	TM153	<1 § M	<1 § M			<1 § M	<1 § #	
TPH >C6-C40	<10 mg/kg	TM154	194 #	548 #	<10 #	<10 #	106 #	<10 #	
Arsenic	<0.6 mg/kg	TM181	10.6 M	8.44 M	10.1 M	7.31 M	19.8 M	21.8 #	
Cadmium	<0.02 mg/kg	TM181	0.317 M	0.285 M	0.106 M	0.0846 M	0.504 M	0.361 #	
Chromium	<0.9 mg/kg	TM181	16.9 M	18.7 M	13.7 M	10.1 M	28.7 M	33.5 #	
Copper	<1.4 mg/kg	TM181	67.8 M	60.9 M	50 M	5.7 M	22.3 M	88 #	
Lead	<0.7 mg/kg	TM181	611 M	595 M	168 M	8.35 M	601 M	44.4 #	
Mercury	<0.14 mg/kg	TM181	3.65 M	2.56 M	0.143 M	<0.14 M	0.172 M	<0.14 #	
Nickel	<0.2 mg/kg	TM181	20.2 M	31.2 M	16.1 M	14.3 M	22.3 M	75.7 #	
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Zinc	<1.9 mg/kg	TM181	115 M	136 M	88.1 M	11.5 M	208 M	227 #	





CERTIFICATE OF ANALYSIS

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

Results Legend		Customer Sample R	FPT 3	FPT 5	FPT 5	FPT 7		
#	ISO17025 accredited.	<b>Depth (m)</b> <b>Sample Type</b> <b>Date Sampled</b> <b>Sample Time</b> <b>Date Received</b> <b>SDG Ref</b> <b>Lab Sample No.(s)</b> <b>AGS Reference</b>	FPT 3	FPT 5	FPT 5	FPT 7		
M	mCERTS accredited.		0.50	0.50	1.00	1.00		
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
aq	Aqueous / settled sample.		08/03/2012	08/03/2012	08/03/2012	08/03/2012		
diss.filt	Dissolved / filtered sample.		.	.	.	.		
tot.unfilt	Total / unfiltered sample.		10/03/2012	10/03/2012	10/03/2012	10/03/2012		
*	Subcontracted test.		120522-27	120522-27	120522-27	120522-27		
**	% 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		5308465	5308456	5308457	5308451		
(F)	Trigger breach confirmed		ES2	ES2	ES3	ES3		
Component	LOD/Units		Method					
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 § M		<0.01 § M	<0.01 § M		
Soil Organic Matter (SOM)	<0.35 %	TM132	1.83 #		3.02 #	6.81 #		
pH	1 pH Units	TM133	9.19 M	8.59 § M	8.7 M	8.86 M		
Cyanide, Total	<1 mg/kg	TM153	<1 § M		<1 § M	<1 § M		
Cyanide, Free	<1 mg/kg	TM153	<1 § M		<1 § M	<1 § M		
TPH >C6-C40	<10 mg/kg	TM154	607 #		10.7 #	21 #		
Arsenic	<0.6 mg/kg	TM181	24.3 M		10 M	19.3 M		
Cadmium	<0.02 mg/kg	TM181	2.06 M		0.163 M	0.367 M		
Chromium	<0.9 mg/kg	TM181	41.2 M		11.6 M	19.3 M		
Copper	<1.4 mg/kg	TM181	80.5 M		44.9 M	85 M		
Lead	<0.7 mg/kg	TM181	3280 M		125 M	397 M		
Mercury	<0.14 mg/kg	TM181	0.284 M		0.56 M	1.74 M		
Nickel	<0.2 mg/kg	TM181	33.9 M		15.2 M	20.7 M		
Selenium	<1 mg/kg	TM181	<1 #		<1 #	<1 #		
Zinc	<1.9 mg/kg	TM181	2590 M		50.5 M	93.5 M		
Soluble Sulphate 2:1 extract as SO4 BRE	<0.003 g/l	TM243		0.0474 M				
Chloride 2:1 water/soil extract BRE	<0.001 g/l	TM243		0.0097 M				
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243		0.069				
Magnesium (BRE)	<0.008 g/l	TM282		<0.008				

SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

PAH by GCMS

Results Legend		Customer Sample R	BH T1	BH T1	BH T1	BH T1	FPT 2	FPT 3
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH T1	BH T1	BH T1	BH T1	FPT 2	FPT 3
M	mCERTS accredited.		0.50	2.00	3.00	4.50	0.50	0.20
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		08/03/2012	08/03/2012	08/03/2012	08/03/2012	08/03/2012	08/03/2012
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.		10/03/2012	10/03/2012	10/03/2012	10/03/2012	10/03/2012	10/03/2012
**	% 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		120522-27	120522-27	120522-27	120522-27	120522-27	120522-27
(F)	Trigger breach confirmed		5308473	5308479	5308481	5308484	5308460	5308464
			ES3	ES7	ES9	ES12	ES2	ES1
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	92.9	99.2	98.4	98.3	91.7	95.3
Acenaphthene-d10 % recovery**	%	TM218	94.6	101	96.2	96.3	89.7	97.7
Phenanthrene-d10 % recovery**	%	TM218	92.4	98.6	93.3	94.6	91.9	93.9
Chrysene-d12 % recovery**	%	TM218	90.3	97.5	84.2	92.4	88.2	81.4
Perylene-d12 % recovery**	%	TM218	91.3	100	84.9	93.8	94.3	75.1
Naphthalene	<9 µg/kg	TM218	50.7	72.4	<9	<9	<9	248
Acenaphthylene	<12 µg/kg	TM218	28	40.7	<12	<12	<12	<12
Acenaphthene	<8 µg/kg	TM218	<8	11.6	<8	<8	<8	12.9
Fluorene	<10 µg/kg	TM218	13.8	19.6	<10	<10	<10	<10
Phenanthrene	<15 µg/kg	TM218	290	377	<15	<15	60.2	166
Anthracene	<16 µg/kg	TM218	53	70.9	<16	<16	<16	<16
Fluoranthene	<17 µg/kg	TM218	368	517	<17	<17	112	58.4
Pyrene	<15 µg/kg	TM218	469	685	<15	<15	112	53
Benz(a)anthracene	<14 µg/kg	TM218	224	310	<14	<14	84.9	38.2
Chrysene	<10 µg/kg	TM218	255	356	<10	<10	64.9	31.7
Benzo(b)fluoranthene	<15 µg/kg	TM218	405	596	<15	<15	103	40.5
Benzo(k)fluoranthene	<14 µg/kg	TM218	144	199	<14	<14	38.8	<14
Benzo(a)pyrene	<15 µg/kg	TM218	375	582	<15	<15	79.4	<15
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	312	519	<18	<18	55.6	<18
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	62.3	103	<23	<23	<23	<23
Benzo(g,h,i)perylene	<24 µg/kg	TM218	424	708	<24	<24	75.3	47.4
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	3470	5170	<118	<118	785	696



CERTIFICATE OF ANALYSIS

SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

PAH by GCMS

Results Legend		Customer Sample R	FPT 3	FPT 5	FPT 7			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.50	1.00	1.00			
S	Deviating sample.		Soil/Solid	Soil/Solid	Soil/Solid			
aq	Aqueous / settled sample.		08/03/2012	08/03/2012	08/03/2012			
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		10/03/2012	10/03/2012	10/03/2012			
(F)	Trigger breach confirmed		120522-27	120522-27	120522-27			
			5308465	5308457	5308451			
		ES2	ES3	ES3				
Component	LOD/Units	Method						
Naphthalene-d8 % recovery**	%	TM218	93.5	95.7	97.6			
Acenaphthene-d10 % recovery**	%	TM218	94.9	92.6	95.5			
Phenanthrene-d10 % recovery**	%	TM218	93.6	89.6	92.9			
Chrysene-d12 % recovery**	%	TM218	94.7	85.3	91			
Perylene-d12 % recovery**	%	TM218	100	83.3	93.1			
Naphthalene	<9 µg/kg	TM218	17.4	29.8	89.9			
Acenaphthylene	<12 µg/kg	TM218	16.8	<12	25.6			
Acenaphthene	<8 µg/kg	TM218	19.1	<8	13.4			
Fluorene	<10 µg/kg	TM218	<10	<10	<10			
Phenanthrene	<15 µg/kg	TM218	273	82.9	196			
Anthracene	<16 µg/kg	TM218	69.3	<16	41			
Fluoranthene	<17 µg/kg	TM218	751	23.1	208			
Pyrene	<15 µg/kg	TM218	643	22.9	184			
Benz(a)anthracene	<14 µg/kg	TM218	396	18.2	114			
Chrysene	<10 µg/kg	TM218	357	27.1	104			
Benzo(b)fluoranthene	<15 µg/kg	TM218	453	28.6	163			
Benzo(k)fluoranthene	<14 µg/kg	TM218	154	<14	49			
Benzo(a)pyrene	<15 µg/kg	TM218	383	<15	120			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	222	<18	83.4			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	66.5	<23	28.7			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	311	<24	129			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4130	233	1550			



SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

## Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH T1 ES 3 0.50 SOLID 08/03/2012 00:00:00  120522-27 5308473 TM048	03/04/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	BH T1 ES 7 2.00 SOLID 08/03/2012 00:00:00  120522-27 5308479 TM048	03/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT 2 ES 2 0.50 SOLID 08/03/2012 00:00:00  120522-27 5308460 TM048	03/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT 3 ES 1 0.20 SOLID 08/03/2012 00:00:00  120522-27 5308464 TM048	03/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT 3 ES 2 0.50 SOLID 08/03/2012 00:00:00  120522-27 5308465 TM048	03/04/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



**CERTIFICATE OF ANALYSIS**

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
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**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT 5 ES 3 1.00 SOLID 08/03/2012 00:00:00  120522-27 5308457 TM048	03/04/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	FPT 7 ES 3 1.00 SOLID 08/03/2012 00:00:00  120522-27 5308451 TM048	03/04/12	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

### Notification of Deviating Samples

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5388575	BH T1 ES7	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5388575	BH T1 ES7	2.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5388603	BH T1 ES7	2.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5388630	BH T1 ES3	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5388630	BH T1 ES3	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5388658	BH T1 ES3	0.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5393260	FPT 5 ES3	1.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5393328	BH T1 ES12	4.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded

### CERTIFICATE OF ANALYSIS

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5393378	FPT 7 ES3	1.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5393393	FPT 7 ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5393393	FPT 7 ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5393410	FPT 7 ES3	1.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5393539	FPT 5 ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5393539	FPT 5 ES3	1.00	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5393541	FPT 5 ES3	1.00	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5393696	FPT 2 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5393696	FPT 2 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5393708	FPT 2 ES2	0.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5393754	FPT 3 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5393754	FPT 3 ES1	0.20	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5393756	FPT 3 ES1	0.20	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5393757	FPT 3 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Free	Sample holding time exceeded
5393757	FPT 3 ES2	0.50	SOLID	yanide Comp/Free/Total/Thiocyanat	Cyanide, Total	Sample holding time exceeded
5393759	FPT 3 ES2	0.50	SOLID	Phenols by HPLC (S)	Phenol	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5417645	FPT 3 ES1	0.20	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5417654	FPT 3 ES2	0.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418269	BH T1 ES7	2.00	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Acenaphthene-d10 % recovery**	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Chrysene-d12 % recovery**	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Naphthalene-d8 % recovery**	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	PAH, Total Detected USEPA 16	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Perylene-d12 % recovery**	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Phenanthrene-d10 % recovery**	Sample holding time exceeded
5418274	BH T1 ES3	0.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Acenaphthene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Acenaphthylene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Anthracene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Benz(a)anthracene	Sample holding time exceeded





## CERTIFICATE OF ANALYSIS

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Benzo(a)pyrene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Benzo(b)fluoranthene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Benzo(g,h,i)perylene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Benzo(k)fluoranthene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Chrysene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Dibenzo(a,h)anthracene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Fluoranthene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Fluorene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Indeno(1,2,3-cd)pyrene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Naphthalene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Phenanthrene	Sample holding time exceeded
5424195	FPT 2 ES2	0.50	SOLID	PAH by GCMS	Pyrene	Sample holding time exceeded
5678226	FPT 5 ES2	0.50	SOLID	pH	pH	Sample holding time exceeded

**Note : Test results may be compromised**

**SDG:** 120522-27  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**
**Location:** Redhill - Bourne Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 183790  
**Superseded Report:** 181854

## Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
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		
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC		
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		
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser		
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40		
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		
TM243		Mixed Anions In Soils By Kone		
TM282		Extraction of Magnesium by BRE Method		
TM321		Organic matter Content of Soil By Titration		

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



SDG: 120522-27  
 Job: H\_CAMREITH\_REH-4  
 Client Reference:

Location: Redhill - Bourne Estate  
 Customer: Campbell Reith Hill  
 Attention: Rhyadd Watkins

Order Number:  
 Report Number: 183790  
 Superseded Report: 181854

### Test Completion Dates

Lab Sample No(s)	5308473	5308479	5308481	5308484	5308460	5308464	5308465	5308456	5308457	5308451
Customer Sample Ref.	BHT1	BHT1	BH T1	BH T1	FPT 2	FPT 3	FPT 3	FPT 5	FPT 5	FPT 7
AGS Ref.	ES3	ES7	ES9	ES12	ES2	ES1	ES2	ES2	ES3	ES3
Depth	0.50	2.00	3.00	4.50	0.50	0.20	0.50	0.50	1.00	1.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)								07-Jun-2012		
Asbestos Identification (Soil)	03-Apr-2012	03-Apr-2012			03-Apr-2012	03-Apr-2012	03-Apr-2012		03-Apr-2012	03-Apr-2012
Cyanide Comp/Free/Total/Thiocyanate	04-Apr-2012	04-Apr-2012			04-Apr-2012	04-Apr-2012	04-Apr-2012		04-Apr-2012	04-Apr-2012
Magnesium (BRE)								11-Jun-2012		
Metals by iCap-OES (Soil)	04-Apr-2012	05-Apr-2012	03-Apr-2012	04-Apr-2012	05-Apr-2012	04-Apr-2012	05-Apr-2012		04-Apr-2012	05-Apr-2012
NO3, NO2 and TON by KONE (s)								08-Jun-2012		
PAH by GCMS	10-Apr-2012	10-Apr-2012	08-Apr-2012	05-Apr-2012	11-Apr-2012	10-Apr-2012	10-Apr-2012		05-Apr-2012	05-Apr-2012
pH	05-Apr-2012	05-Apr-2012	04-Apr-2012	04-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012	08-Jun-2012	05-Apr-2012	05-Apr-2012
Phenols by HPLC (S)	04-Apr-2012	04-Apr-2012			05-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012	04-Apr-2012
Sample description	01-Apr-2012	01-Apr-2012	30-Mar-2012	30-Mar-2012	01-Apr-2012	02-Apr-2012	02-Apr-2012	01-Jun-2012	01-Apr-2012	01-Apr-2012
Total Organic Carbon	05-Apr-2012	05-Apr-2012	03-Apr-2012	04-Apr-2012	04-Apr-2012	05-Apr-2012	04-Apr-2012		05-Apr-2012	05-Apr-2012
TPH c6-40 Value of soil	04-Apr-2012	04-Apr-2012	05-Apr-2012	04-Apr-2012	05-Apr-2012	05-Apr-2012	05-Apr-2012		05-Apr-2012	05-Apr-2012



Lab address:   
 Sent from: **Harrison Group Environmental Ltd.**  
 Unit A11, Poplar Business Park  
 10 Prestons Road, London, E14 9RL  
 Tel. No.: 020 7537 9233  
 Project/ Site Name: **Tyalds Close Estate, Camden**

Contract Name: **Jiban Bajracharya**  
 Email: [GL@harrisongroupuk.com](mailto:GL@harrisongroupuk.com)

Date Samples Scheduled: **GL16481**  
 Project Code: **GP**  
 Sample ID: **GP**  
 Quote Reference: **020 7987 0361**  
 Turnaround Time: **One project per sheet please**

Sampling Date (dd/mm/yy)	Borehole/ Trial Pit No.	Sample Type	Sample Number	Sample Depth in Metres (Top)	Sample Depth in Metres (Bottom)	Chain of Custody Reference	(S)soil or (W)water or (G)gas (specify if other)	Site Name (from Contract Rates or Quotation)	pH & Sulphate	Metals	Mercury	PAH	Phenols	TPH	Individual Determinants (SOIL)	Individual Determinants (GAS)	Individual Determinants (WATER and LEACHATE)	1.60 PAH (Total)	1.61 PAH (Total of USEPA 16)	1.62 PAH (16 Speciated) (Modified EPA 8100)	1.63 TPH - CWG (C5-35) based on TNRC method 1006	1.65 BTEX by GC-MS (Modified US EPA 8150)	1.66 SVOCs target list (one extraction only) (Modified US EPA 8270)	1.67 SVOCs scan (up to 10 peaks, > 80% fit)	1.68 VOCs target list only (Modified US EPA 8260)	1.69 VOCs target list plus TICs (top 10 peaks to 0.01mg/l only) (Modified US EPA 8260)	1.70 Phenols (Total) by HPLC	1.71 Phenols (Speciated)											
23/03/2012	BH T1	EW	1	5.00	5.00	2846	W		X	X	X	X	X																										
23/03/2012	BH T2A	EW	1	5.00	5.00	2846	W		X	X	X	X	X																										
23/03/2012	BH T2A	G	1			2846	G																																
05/04/2012	BH T1	EW	2	5.00	5.00		W																																
05/04/2012	BH T2A	EW	2	5.00	5.00		W																																
17/04/2012	BH T1	EW	3	5.00	5.00		W		X																														
17/04/2012	BH T2A	EW	3	5.00	5.00		W		X																														
						Total scheduled																																	
						Total tested																																	

**COMMENTS: data required in AGS format (V3.1).**

**1.1A. Mandatory Soil Suite includes:** As, Cd, Cr, Cu, Ni, Pb, Hg, Se, Zn, Cyanide (total), TPH screen (C6-40), PAH (total), pH.

**1.1B. Waste Categorisation (HPA) soils suite includes:** pH, Moisture Content, Total Sulphate, Sulphide, Phenols Monohydric, Total Cyanide, As, Cd, Cr, Ni, Pb, Hg, Se, Cu, Zn, PAHs USEPA 16 (plus addition of benzo(a)fluoranthene) by GC-MS GRO (C6-C10), EPH Banded (C10-C25; C25-C40).

**1.1B1. WAC Leachates Suite includes:** Waste Acceptance Criteria Thresholds for Leachates, Leachate Prep BS EN 12457.3 (CEN Stage 2, 1 and 10-T), As, Ba, Cd, Cr, Cu, Hg, Mo, Ni, Pb, Sb, Se, Zn, C, F, SO4, TDS Phenol Index, DOC.

**1.1B11. WAC Solid Suite-Full includes:** TOC, LOI, BTEX, PCBs, Mineral Oil C10-C40, pH, Acid Neutralisation Capacity, PAHs-total 17 GC-MS.

**1.1B11. WAC Solid Suite-limited includes:** TOC, BTEX, PCBs, Mineral Oil C10-C40, Acid Neutralisation Capacity, PAHs-total 17 GC-MS.

**1.1Bv. WAC Solid Suite-Hazardous includes:** TOC, LOI.

**1.156. Bulk Gas includes:** Methane (0.05%), Carbon Dioxide (0.05%), Nitrogen (0.5%), Hydrogen (0.5%), Carbon Monoxide (1ppm), Hydrogen Sulphide (1ppm).

**1.157. C1-C7 includes:** Methane, Ethane, Ethene, Butane, Propane, Hexane, Heptane) 1ppm.

**1.159. Mandatory Water Suite includes:** As, Cd, Cr, Cu, Ni, Zn, Pb, Hg, B, Se, Hex Chromium, Total Cyanide, Free Cyanide, Soluble Sulphate, Sulphide, Free Sulphur, Speciated (16) PAHs, Phenols, Thiocyanate, Total TPH, pH.

**1.171. Speciated Phenol Suite:** 2-methylphenol (o-cresol), 4-methylphenol (p-cresol), 2, 4-Dimethylphenol (m-cresol).

**1.172. Glycol Suite:** Monoethylene glycol, Propylene glycol, Diethylene glycol, Triethylene glycol.

**PCB (WHO T2) Congener:** 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, 189.

Special Instructions / Known Hazards:  
 Intended Use of Results:  
 Required for Environment Agency? **Y** (N) (Please Circle as Applicable)

Date Received: \_\_\_\_\_ Time: \_\_\_\_\_ Signature: \_\_\_\_\_ Report No. \_\_\_\_\_



Harrison Group Ltd  
Unit C14  
Poplar Business Park  
10 Prestons Road  
London  
E14 9RL

**Attention:** Jiban Bajracharya

## CERTIFICATE OF ANALYSIS

**Date:** 26 April 2012  
**Customer:** H\_HARRIS\_LON  
**Sample Delivery Group (SDG):** 120423-3  
**Your Reference:** GL16481  
**Location:** Tybalds Close  
**Report No:** 179064

We received 2 samples on Saturday April 21, 2012 and 2 of these samples were scheduled for analysis which was completed on Thursday April 26, 2012. 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





**SDG:** 120423-3  
**Job:** H\_HARRIS\_LON-68  
**Client Reference:** GL16481

**Location:** Tybalds Close  
**Customer:** Harrison Group Ltd  
**Attention:** Jiban Bajracharya

**Order Number:**  
**Report Number:** 179064  
**Superseded Report:**

<b>LIQUID</b> <b>Results Legend</b> <input checked="" type="checkbox"/> Test <input type="checkbox"/> No Determination Possible	<b>Lab Sample No(s)</b>		5487478 5487480
	<b>Customer Sample Reference</b>		BHT2A BHT1
	<b>AGS Reference</b>		
	<b>Depth (m)</b>		
	<b>Container</b>		1l green glass bottle 1l green glass bottle
Anions by Kone (w)	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
pH Value	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>



CERTIFICATE OF ANALYSIS

Validated

SDG: 120423-3
Job: H\_HARRIS\_LON-68
Client Reference: GL16481

Location: Tybalds Close
Customer: Harrison Group Ltd
Attention: Jiban Bajracharya

Order Number:
Report Number: 179064
Superseded Report:

Table with columns: Results Legend, Customer Sample R, BHT1, BHT2, Component, LOD/Units, Method. Includes data for Sulphate and pH.





**SDG:** 120423-3  
**Job:** H\_HARRIS\_LON-68  
**Client Reference:** GL16481

**Location:** Tybalds Close  
**Customer:** Harrison Group Ltd  
**Attention:** Jiban Bajracharya

**Order Number:**  
**Report Number:** 179064  
**Superseded Report:**

## Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



SDG: 120423-3  
Job: H\_HARRIS\_LON-68  
Client Reference: GL16481

Location: Tybalds Close  
Customer: Harrison Group Ltd  
Attention: Jiban Bajracharya

Order Number:  
Report Number: 179064  
Superseded Report:

### Test Completion Dates

<b>Lab Sample No(s)</b>	5487480	5487478
<b>Customer Sample Ref.</b>	BHT1	BHT2A
<b>AGS Ref.</b>		
<b>Depth</b>		
<b>Type</b>	LIQUID	LIQUID
Anions by Kone (w)	25-Apr-2012	25-Apr-2012
pH Value	24-Apr-2012	24-Apr-2012





Campbell Reith Hill  
Somerset House  
47-49 London Road  
Redhill  
Surrey  
RH1 1LV

**Attention:** Rhyadd Watkins

## CERTIFICATE OF ANALYSIS

**Date:** 18 April 2012  
**Customer:** H\_CAMREITH\_REH  
**Sample Delivery Group (SDG):** 120328-67  
**Your Reference:**  
**Location:** Redhill - Tybalds Estate  
**Report No:** 178222

We received 3 samples on Wednesday March 28, 2012 and 2 of these samples were scheduled for analysis which was completed on Wednesday April 18, 2012. 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





**SDG:** 120328-67  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Tybalds Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 178222  
**Superseded Report:**

### Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
5373535	T2A			23/03/2012

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



**SDG:** 120328-67  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Tybalds Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 178222  
**Superseded Report:**

<b>LIQUID</b> Results Legend X Test N No Determination Possible	Lab Sample No(s)		5373530	5373532
	Customer Sample Reference		T1	T2A
	AGS Reference		EW1	EW1
	Depth (m)		5.00 - 5.00	5.00 - 5.00
	Container		11 green glass bottle	11 plastic (AL E221) 11 green glass bottle 11 plastic (AL E221)
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 2	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 2	X	X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 2	X	X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 2	X	X
TPH by IR Oils and Greases	All	NDPs: 0 Tests: 2	X	X



CERTIFICATE OF ANALYSIS

SDG: 120328-67
Job: H\_CAMREITH\_REH-4
Client Reference:

Location: Redhill - Tybalds Estate
Customer: Campbell Reith Hill
Attention: Rhyadd Watkins

Order Number:
Report Number: 178222
Superseded Report:

Table with columns: Results Legend, Customer Sample R, T1, T2A, Component, LOD/Units, Method. Rows include Arsenic, Boron, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Zinc, Mercury, TPH / Oil & Greases, Phenol.



**SDG:** 120328-67  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Tybalds Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 178222  
**Superseded Report:**

**PAH Spec MS - Aqueous (W)**

Results Legend		Customer Sample R	T1	T2A			
#	ISO17025 accredited.	<b>Depth (m)</b> <b>Sample Type</b> <b>Date Sampled</b> <b>Sample Time</b> <b>Date Received</b> <b>SDG Ref</b> <b>Lab Sample No.(s)</b> <b>AGS Reference</b>	5.00 - 5.00	5.00 - 5.00			
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)			
S	Deviating sample.		23/03/2012	23/03/2012			
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						
Component	LOD/Units		Method				
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1 #	<0.1 #			
Acenaphthene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #			
Acenaphthylene (aq)	<0.011 µg/l	TM178	<0.011 #	<0.011 #			
Fluoranthene (aq)	<0.017 µg/l	TM178	<0.017 #	0.0343 #			
Anthracene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #			
Phenanthrene (aq)	<0.022 µg/l	TM178	<0.022 #	<0.022 #			
Fluorene (aq)	<0.014 µg/l	TM178	<0.014 #	<0.014 #			
Chrysene (aq)	<0.013 µg/l	TM178	<0.013 #	0.0157 #			
Pyrene (aq)	<0.015 µg/l	TM178	0.0241 #	0.0532 #			
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	<0.017 #	<0.017 #			
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	<0.023 #	<0.023 #			
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	<0.027 #	<0.027 #			
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	<0.009 #	0.0254 #			
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	<0.016 #	<0.016 #			
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	<0.016 #	0.022 #			
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	<0.014 #	0.0146 #			
PAH, Total Detected USEPA 16 (aq)	<0.247 µg/l	TM178	<0.247	<0.247			





**SDG:** 120328-67  
**Job:** H\_CAMREITH\_REH-4  
**Client Reference:**

**Location:** Redhill - Tybalds Estate  
**Customer:** Campbell Reith Hill  
**Attention:** Rhyadd Watkins

**Order Number:**  
**Report Number:** 178222  
**Superseded Report:**

## Notification of Deviating Samples

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
5446668	T1 EW1	5.00 - 5.00	LIQUID	Phenols by HPLC (W)	Phenol	Analysis carried out on unpreserved sample
5446692	T2A EW1	5.00 - 5.00	LIQUID	Phenols by HPLC (W)	Phenol	Analysis carried out on unpreserved sample

**Note :** Test results may be compromised



**SDG:** 120328-67  
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**Order Number:**  
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**Superseded Report:**

## Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM235	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London	Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



SDG: 120328-67  
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Superseded Report:

### Test Completion Dates

<b>Lab Sample No(s)</b>	5373530	5373532
<b>Customer Sample Ref.</b>	T1	T2A
<b>AGS Ref.</b>	EW1	EW1
<b>Depth</b>	5.00 - 5.00	5.00 - 5.00
<b>Type</b>	LIQUID	LIQUID

Dissolved Metals by ICP-MS	16-Apr-2012	16-Apr-2012
Mercury Dissolved	18-Apr-2012	16-Apr-2012
PAH Spec MS - Aqueous (W)	18-Apr-2012	18-Apr-2012
Phenols by HPLC (W)	17-Apr-2012	17-Apr-2012
TPH by IR Oils and Greases	18-Apr-2012	18-Apr-2012

