

Mr John Coles Bury Hill Landscape Supplies Ltd The Estate Office Old Bury Hill Westcott Nr Dorking Surrey, RH4 3JU

> 20<sup>th</sup> August 2024 Our Ref: TOHA/24/1472/7/SS Your Ref: see below

Dear Sirs

## Subsoil Analysis Report: Bury Hill Horsham Yard – Bury Hill Kent Medium / Coarse Subsoil

We have completed the analysis of the soil sample recently collected, referenced *Bury Hill Kent Medium / Coarse Subsoil* and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for use as a subsoil in general landscape applications (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Subsoil (*BS8601:2013 – Specification for subsoil and requirements for use – Table 1, Multipurpose Subsoil)*, including analysis of potential contaminants.

This report presents the results of analysis for the sample collected from the production facility on 30/07/2024 and it should be considered 'indicative' of the subsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing, waste designation purposes or for any project-specific application, especially after the topsoil has left the Bury Hill Landscape Supplies Ltd site.

# SAMPLE EXAMINATION

The material can be described as a brownish yellow (Munsell Colour, 10YR 6/8), slightly moist, friable, noncalcareous SAND with a single grain structure. The material was stone free and no unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

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Plate 1: Bury Hill Kent Medium / Coarse Subsoil Sample

# ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition of the soil. The following parameters were determined:

- detailed particle size analysis (5 sands, silt, clay);
- stone content (2-20mm, 20-75mm, >75mm);
- saturated hydraulic conductivity;
- pH and electrical conductivity (1:2.5 water extract);
- exchangeable sodium percentage
- calcium carbonate.
- organic matter content;
- California bearing ratio (CBR);
- visible contaminants;
- heavy metals (Sb, As, B, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, V, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX);
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

# RESULTS OF ANALYSIS

## Particle Size Analysis and Saturated Hydraulic Conductivity

The sample fell into the *sand* texture class. Further detailed particle size analysis revealed the sample to have a narrow particle size distribution with a predominance of *medium sand* (0.25-0.50mm) followed by *coarse sand* (0.50-1.0mm). This is acceptable for subsoil in general landscape applications as porosity levels are maintained in a compacted state and the risk of particle interpacking is minimised. However, such soils can possess poor water retention capacities and as a consequence they often have a greater risk of drought, particularly during prolonged dry periods.

The particle size distribution falls outside of the range indicated in *BS8601:2013 – Figure 1*, on account of the high sand content.

The subsoil represented by this sample would be described as 'very free-draining', which is confirmed by the high saturated hydraulic conductivity result (358 mm/hr).

#### Stone Content

The sample was stone-free and, as such, stones should not restrict the use of the soil for use as subsoil in general landscape purposes.

#### pH and Electrical Conductivity Values

The sample was alkaline in reaction (pH 7.6). This pH value would be considered suitable as subsoil for general landscape purposes providing species with a wide pH tolerance or those known to prefer alkaline soils are selected for planting, turfing and seeding.

The electrical conductivity (salinity) value (water extract) was low, which indicates that soluble salts were not present at levels that would be harmful to plants.

The electrical conductivity value by CaSO<sub>4</sub> extract (*BS8601* requirement) fell below the maximum specified value (2800  $\mu$ S/cm) given in *BS8601:2013 – Table 1*.

#### **Organic Matter Content**

The organic matter content was low (<0.5%) and compliant with BS8601:2013 – Table 1.

#### California Bearing Ratio

A re-compacted California Bearing Ratio (CBR) was completed as part of the engineering testing undertaken on the sample. The sample was re-compacted using the 2.5kg rammer at the as received moisture content and the sample returned a minimum CBR of 13%. Assuming that the in-situ compaction method selected during installation provides similar levels of compaction to that of the laboratory test, the in-situ performance of the material should be able to achieve a similar result, <u>provided</u> it is compacted at the same moisture content (2%).

As the performance of the soil will be linked to the moisture content at time of compaction, further work may be required in order to correlate the change in engineering performance of the material over the range of moisture contents at which the soil is likely to be placed and compacted.

We recommend a more conservative approach with the performance of the material, and, as opposed to a CBR of 13%, we would quote "should achieve a CBR in excess of 5%..." The 5% CBR is important as this is the lower limit for the sub-grade for the minimum construction thickness.

# Potential Contaminants

With reference to *BS8601:2013* – *Section 4.2: Note 2*, there is a requirement to confirm levels of potential contaminants in relation to the subsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations of selected potential contaminants that affect human health have been assessed for the concentrations that affect human health have been assessed for *residential* end-use against the Suitable For Use Levels (S4ULs) presented in the LQM/CIEH S4ULs for Human Health Risk Assessment (2015) and the DEFRA SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document (2014).

Of the potential contaminants determined, none exceeded their respective guideline values.

## Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in *BS8601:2013 – Table 1*.

## CONCLUSION

The purpose of the analysis was to determine the suitability of the sample for use as subsoil in general landscape applications (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Subsoil (*BS8601:2013 – Specification for subsoil and requirements for use – Table 1, Multipurpose Subsoil*).

From the soil examination and subsequent laboratory analysis, the soil represented by this sample was described as an alkaline, non-saline, non-calcareous, stone free sand with a single grain structure. The organic matter content was low and consistent with subsoil. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the subsoil represented by this sample would be considered suitable for landscape applications where a free-draining subsoil is required or where there will be a low drought risk.

The sample was largely compliant with the requirements of the British Standard for Subsoil (*BS8601:2013 – Specification for subsoil and requirements for use – Table 1, Multipurpose Subsoil*) with the exception of the high sand content. On this occasion, this non-compliance is considered minor <u>provided</u> the landscape application proposed for this subsoil requires a free-draining subsoil.

# Soil Handling Recommendations

Reference should be made to Section 6.0 of *BS8601:2013* with regard to the handling and management of the subsoil:

"Soils generally lose strength and become less resistant to damage as they become wetter; therefore, it is essential that they are stripped, handled and trafficked only in the appropriate conditions of weather and soil moisture, and with suitable machinery. If sustained heavy rainfall (e.g. >10 mm in 24 h) occurs during soil stripping operations, work should be suspended and not restarted until the ground has had at least one dry day or until a suitable moisture content has been reached. A soil can be considered to have a suitable moisture content for stripping and handling if the whole thickness of the subsoil layer being stripped and/or handled is at a moisture content below the plastic limit as determined in accordance with BS 1377-2:1990 (incorporating Amendment No. 1).

Machinery should be selected and routed to minimise soil compaction."

Further guidance is provided in Clauses 6.1–6.5.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully

H.MacRae

Harriet MacRae BSc MSc Soil Scientist

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**Ceri Spears** BSc MSc MISoilSci Senior Associate

For & on behalf of Tim O'Hare Associates LLP



Project         Bury Hill Horsham Yard           Job:         Subsoil Analysis - BS8601:2013           Date:         20/08/2024	
Job: Subsoil Analysis - BS8601:2013	
Data: 20/08/2024	
Date: 20/00/2024	
Job Ref No: TOHA/24/1472/7/SS	

#### Sample Reference

Clau ( -0.002mm)		Accreditation
	0/	
Clay (<0.002mm)	%	UKAS
Silt (0.002-0.05mm)	%	UKAS
Very Fine Sand (0.05-0.15mm)	%	UKAS
Fine Sand (0.15-0.25mm)	%	UKAS
Medium Sand (0.25-0.50mm)	%	UKAS
Coarse Sand (0.50-1.0mm)	%	UKAS
Very Coarse Sand (1.0-2.0mm)	%	UKAS
Total Sand (0.05-2mm)	%	UKAS
Texture Class (UK Classification)		UKAS
Stones (2-20mm)	% DW	GLP
Stones (20-75mm)	% DW	GLP
Stones (>75mm)	% DW	GLP
Saturated Hydraulic Conductivity	mm/hr	A2LA
		111/4 0
pH Value (1:2.5 water extract)	units	UKAS
Calcium Carbonate	%	UKAS
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS
Electrical Conductivity (1:2 CaSO <sub>4</sub> extract)	uS/cm	UKAS
Organic Matter (LOI)	%	UKAS
Exchangeable Sodium Percentage	%	UKAS
Exchangeable obdiant refeemage	70	01010
Moisture Content (Initial)	%	UKAS
Moisture Content (Top)	%	UKAS
Moisture Content (Base)	%	UKAS
Moisture Content (Mean)	%	UKAS
		UKAS
Initial Bulk Density	Mg/m3	
Initial Dry Density	Mg/m3	UKAS
CBR Top	%	UKAS
CBR Base	%	UKAS
Visible Contaminants: Plastics >2.00mm	%	UKAS
	%	
Visible Contaminants: Sharps >2.00mm	%	UKAS
Total Antimony (Sb)	mg/kg	MCERTS
Total Arsenic (As)	mg/kg	MCERTS
Total Barium (Ba)	mg/kg	MCERTS
Total Beryllium (Be)	mg/kg	MCERTS
Total Cadmium (Cd)	mg/kg	MCERTS
Total Chromium (Cr)	mg/kg	MCERTS
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS
Total Copper (Cu)	mg/kg	MCERTS
Total Lead (Pb)	mg/kg	MCERTS
Total Mercury (Hg)	mg/kg	MCERTS
Total Nickel (Ni)	mg/kg	MCERTS
Total Selenium (Se)	mg/kg	MCERTS
Total Vanadium (V)	mg/kg	MCERTS
Total Zinc (Zn)	mg/kg	MCERTS
Water Soluble Boron (B)	mg/kg	MCERTS
Total Cyanide (CN)	mg/kg	MCERTS
Total (mono) Phenols	mg/kg	MCERTS
Nanhthalene	ma/ka	MCERTS
Naphthalene	mg/kg	MCERTS
Acenaphthylene	mg/kg	MCERTS
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Acenaphthylene           Acenaphthene           Fluorene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(c)pyrene           Indeno(1,2,3-cd)pyrene           Dibenzo(a,h)anthracene           Benzo(g,h,i)perylene           Total PAHs (sum USEPA16)           Aliphatic TPH >C5 - C6           Aliphatic TPH >C6 - C10           Aliphatic TPH >C6 - C10           Aliphatic TPH >C10 - C12           Aliphatic TPH >C20 - C35           Aliphatic TPH >C5 - C35           Aliphatic TPH >C5 - C35	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(a)pyrene           Dibenzo(a,h)anthracene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(b,h)perylene           Total PAHs (sum USEPA16)           Aliphatic TPH >C5 - C6           Aliphatic TPH >C5 - C6           Aliphatic TPH >C6 - C12           Aliphatic TPH >C10 - C21           Aliphatic TPH >C2 - C35           Aliphatic TPH >C5 - C35           Aliphatic TPH >C5 - C35           Aromatic TPH >C5 - C7           Aromatic TPH >C7 - C8	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(a)pyrene           Indeno(1,2,3-cd)pyrene           Dibenzo(a,h)anthracene           Benzo(g,h,i)perylene           Total PAHs (sum USEPA16)           Aliphatic TPH >C5 - C6           Aliphatic TPH >C6 - C10           Aliphatic TPH >C6 - C10           Aliphatic TPH >C10 - C12           Aliphatic TPH >C5 - C35           Aliphatic TPH >C5 - C35           Aliphatic TPH >C5 - C35	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorent         Phenanthrene         Anthracene         Eluoranthene         Pyrene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(a,h)anthracene         Benzo(g),h.i)perylene         Total PAHs (sum USEPA16)         Aliphatic TPH >C5 - C6         Aliphatic TPH >C6 - C2         Aliphatic TPH >C10 - C12         Aliphatic TPH >C10 - C16         Aliphatic TPH >C10 - C18         Aliphatic TPH >C10 - C18         Aliphatic TPH >C5 - C7         Aromatic TPH >C5 - C7         Aromatic TPH >C6 - C10	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(c)pyrene           Indeno(1,2,3-cd)pyrene           Dibenzo(a,h)anthracene           Benzo(g,h,i)perylene           Total PAHs (sum USEPA16)           Aliphatic TPH >C5 - C6           Aliphatic TPH >C6 - C10           Aliphatic TPH >C6 - C10           Aliphatic TPH >C10 - C12           Aliphatic TPH >C6 - C35           Aromatic TPH >C7 - C8           Aromatic TPH >C7 - C8           Aromatic TPH >C7 - C8           Aromatic TPH >C8 - C10           Aromatic TPH >C10 - C12	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(k)fluoranthene           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Aliphatic TPH >C5 - C6           Aliphatic TPH >C61 - C12           Aliphatic TPH >C6 - C3           Aliphatic TPH >C5 - C7 <td>mg/kg mg/kg</td> <td>MCERTS MCERTS</td>	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorent         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(a)pyrene         Indenci (1, 2, 3-cd)pyrene         Dibenzo(a,h)anthracene         Benzo(g), h.i)perylene         Total PAHs (sum USEPA16)	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorene           Phenanthrene           Anthracene           Fluoranthene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(b)fluoranthene           Benzo(k)fluoranthene           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Benzo(k)hilder           Aliphatic TPH >C5 - C6           Aliphatic TPH >C61 - C12           Aliphatic TPH >C6 - C3           Aliphatic TPH >C5 - C7 <td>mg/kg mg/kg</td> <td>MCERTS MCERTS</td>	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorent         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(a)pyrene         Indenci (1, 2, 3-cd)pyrene         Dibenzo(a,h)anthracene         Benzo(g), h.i)perylene         Total PAHs (sum USEPA16)	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene           Acenaphthene           Fluorant           Fluoranthrene           Anthracene           Fluoranthrene           Pyrene           Benz(a)anthracene           Chrysene           Benzo(b)fluoranthene           Benzo(a)pyrene           Indeno(1,2,3-cd)pyrene           Dibenzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(a,h)anthracene           Benzo(a,h)aperylene           Total PAHs (sum USEPA16)           Aliphatic TPH >C5 - C6           Aliphatic TPH >C5 - C6           Aliphatic TPH >C6 - C10           Aliphatic TPH >C6 - C21           Aliphatic TPH >C6 - C21           Aliphatic TPH >C10 - C12           Aliphatic TPH >C6 - C35           Aliphatic TPH >C6 - C35           Aliphatic TPH >C6 - C36           Aromatic TPH >C7 - C8           Aromatic TPH >C10 - C12           Arom	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorent         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benz(a)anthracene         Benz(a)anthracene         Benz(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(a)pyrene         Dibenzo(a,h)anthracene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(a)pyrene         Dibenzo(a,h)anthracene         Benzo(g,h.i)perylene         Dibenzo(a,h)anthracene         Benzo(b)fluoranthene         Aliphatic TPH >C5 - C6         Aliphatic TPH >C6 - C1         Aliphatic TPH >C6 - C16         Aliphatic TPH >C10 - C12         Aliphatic TPH >C16 - C21         Aliphatic TPH >C5 - C7         Aromatic TPH >C6 - C16         Aliphatic TPH >C6 - C10         Aromatic TPH >C10 - C12	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorant         Fluoranthrene         Anthracene         Fluoranthrene         Pyrene         Benz(a)anthracene         Chrysene         Benzo(b)fluoranthene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(a,h)anthracene         Benzo(a,h)perylene         Dibenzo(a,h)perylene         Total PAHs (sum USEPA16)	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benz(cl)fluoranthene         Benzo(b)fluoranthene         Benzo(cl)fluoranthene         Benzo(cl)fluoranthene         Benzo(cl)fluoranthene         Benzo(cl)fluoranthene         Benzo(cl,h)anthracene         Aliphatic TPH >C5 - C6         Aliphatic TPH >C5 - C10         Aliphatic TPH >C10 - C12         Aliphatic TPH >C21 - C35         Aromatic TPH >C10 - C12	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorenthrene         Anthracene         Fluoranthrene         Pyrene         Benz(a)anthracene         Chrysene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(g)prene         Dibenzo(a,h)anthracene         Benzo(b)ruber (a,b)prene         Total PAHs (sum USEPA16)	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benz(a)anthracene         Chrysene         Benz(b)fluoranthene         Benzo(b)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthracene         Benzolog(h)perylene         Total PAHs (sum USEPA16)         Aliphatic TPH >C5 - C6         Aliphatic TPH >C6 - C12         Aliphatic TPH >C12 - C16         Aliphatic TPH >C21 - C15         Aromatic TPH >C12 - C16	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Fluorenthrene         Anthracene         Fluoranthrene         Pyrene         Benz(a)anthracene         Chrysene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(g)prene         Dibenzo(a,h)anthracene         Benzo(b)ruber (a,b)prene         Total PAHs (sum USEPA16)	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzd(b)fluoranthene         Benzo(b)fluoranthene         Benzo(b)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(g),h.)perylene         Dibenzo(a,h)anthracene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(g),h.)perylene         Dibenzo(a,h)anthracene         Benzo(a,h)anthracene         Benzo(a,h)anthracene         Benzo(a,h)anthracene         Benzo(a,h)anthracene         Aliphatic TPH >C5 - C6         Aliphatic TPH >C6 - C10         Aliphatic TPH >C21 - C35         Aromatic TPH >C10 - C12         Aromatic TPH >C10 - C12         Aromatic TPH >C21 - C35         Aromatic TPH >C21 - C35         Aromatic TPH >C21 - C35         Aromatic TPH >C21	mg/kg mg/kg	MCERTS MCERTS
Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benz(a)anthracene         Chrysene         Benz(b)fluoranthene         Benzo(b)fluoranthene         Benzo(k)fluoranthene         Benzo(k)fluoranthracene         Benzolog(h)perylene         Total PAHs (sum USEPA16)         Aliphatic TPH >C5 - C6         Aliphatic TPH >C6 - C12         Aliphatic TPH >C12 - C16         Aliphatic TPH >C21 - C15         Aromatic TPH >C12 - C16	mg/kg mg/kg	MCERTS MCERTS

Coarse Subso	1
1	
2	
3	
9	
50	
30	
5	
97	
S	
0	
0	
0	
358	
550	_
7.6	
< 1.0	
44	
2041	
<0.5	
1.7	
0	
2	
2	
2	
2 2 1.81	
1.77	
13	
30	
0	
0	
< 1.0	
2	
7	
0.07	
< 0.2	
10	
< 1.8	
< 1.0	
< 0.3	
3	
< 1.0	
9	
4	
0.2	
< 1.0	
< 1.0	
.0.05	
< 0.05	<u> </u>
< 0.05	
< 0.05	
< 0.05	
< 0.05	

Bury Hill Kent Medium /

< 0.05
< 0.05
< 0.05
< 0.05
< 0.80
< 0.010
< 0.010
< 0.010
< 1.0
< 2.0
< 8.0
< 8.0
< 10
< 0.010
< 0.010
< 0.020
< 1.0
< 2.0
< 10
< 10
< 10

< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05

< 0.005
< 0.005
< 0.005
< 0.005
< 0.005
< 0.005
Not-detected

#### S = SAND

Visual Examination The material can be described as a brownish yellow (Munsell Colour, 10YR 6/8), slightly moist, friable, non-calcareous SAND with a single grain structure. The material was stone free and no unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.



Harriet MacRae BSc MSc Soil Scientist

Results of analysis should be read in conjunction with the report they were issued with.

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