

14092/RH

25 November 2022

Lovell Partnerships Ltd
Greenmeadow Business Park
Unit 5
Cae Gwyrdd
Cardiff
CF15 7AB

For the attention of Mr Neil Thomas

Dear Sirs,

Former Whiteheads Steelworks, Mendalgief Road, Newport, NP20 2HY
NHBC Outstanding Land Quality Conditions, Ref: 216335 LQ conditions LQ5 & LQ6.
Planning Permission Number RM1-18/1039, RM2-18/1142 and RM3-21/0464
Validation of Imported Clean Cover Plots 158 to 161

Intégral Géotechnique were appointed by the Lovell Partnerships Limited to carry out the clean cover validation inspections to soft landscaped and garden areas within the above development as the site build program progresses. We can report the clean cover soil validation works within the above development site as follows.

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This information is submitted in support of the discharge of conditions of the following consents and/or warranties.

Regulator	Reference
Local Authority Planning Permission Number	RM1-18/1039, RM2-18/1142 and RM3-21/0464
NHBC outstanding Land Quality Conditions Ref	216335 LQ conditions LQ5 & LQ6

The required remedial measures regarding the requirement to mitigate land contamination risks at the above site comprise the placement of a clean 600mm capping layer to be incorporated within the soft landscaped and garden areas of the new development. This capping layer is to be underlain by a Hi-Visibility Geotextile Membrane.

Remedial Strategy Requirements (Clean Capping Layer)

1. The upper 600 mm of fill used in the clean capping layer in all garden and soft finished areas are to be chemically tested and UKAS accredited laboratory analysis certificates supplied. The capping system is to comprise of imported clean inert materials conforming to the Requirements for the Chemical Testing of Imported Materials for Various End Uses and Validation of Cover Systems prepared by Welsh Land Contamination Working Group and to satisfy appropriate soil guideline values for residential developments with gardens. Samples of the topsoil and subsoil will be taken for laboratory analysis, at a frequency of 1 in every 4 gardens.
2. Topsoil brought to the site will require a laboratory analysis certificate confirming its suitability for use and sampling prior to placement to confirm its chemical suitability (minimum of three samples per source).
3. Subsoil will require a laboratory analysis certificate confirming its suitability for use and sampling prior to placement to confirm its chemical suitability (minimum of three samples per source).
4. Following placement of the imported topsoil and subsoil within garden areas, a validation trial pit excavation depth check will be undertaken at a frequency of 1 in 4 plots, so as to confirm the sufficient depth of the clean capping layer, along with observation of a Hi-Visibility Geotextile Membrane placed at the base of the capping soils.

An additional sample of topsoil and subsoil will also be taken from each trial pit excavated to further confirm the chemical quality of the topsoil and subsoil on an ongoing basis.

Validation of Clean Capping Layer to Plots 158 to 161

An engineer from Intégral Géotechnique attended site on 24th November 2022 and observed hand/machine dug trial pit for validation purposes at 1 No. trial pit within the above garden areas within plot 159.

This trial pit was found to exhibit the required total of a minimum 600mm of clean cover soil material placed in the garden areas along with observation of the Hi-Visibility Geotextile Membrane placed at the base of the capping soils.

Various photographs of capping depths and infilled constructed gardens are shown in Figures.

Representative samples of the 'as placed' topsoil and subsoil soil materials in the above garden areas inspected have been further sampled and sent to the accredited laboratories of i2 Analytical for chemical analysis. These soil analysis reports are not available at this time due to the late availability of validation inspection, the soil analysis report when received from the laboratories of I2 Analytical and assessed as suitable for use will be forwarded on in future revised correspondence.

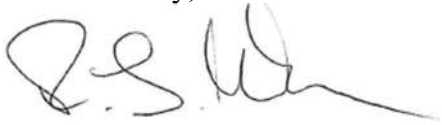
Conclusion

This report based on the above information, therefore confirms that the final remediation works regarding the capping layer depth required for plots 158 to 161 and the Hi-Visibility Geotextile Membrane placement at the base of the capping soils has been observed.

Provision of clean cover to the remaining plots at site and at the required inspection frequency will be provided in due course.

We trust that the above is to your satisfaction. However, if you have any queries or require any further information, please do not hesitate to contact us.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R.J. Hawkins', with a long horizontal flourish extending to the right.

Roger J Hawkins
For
Intégral Géotechnique (Wales) Limited

Figures.

APPENDIX A

FIGURES



Plot 159 Depth Check



Plot 159 Trial Pit Profile (Heavy Rainfall)

14092: Remedial Capping Works to Gardens and Landscape Areas

Former Whiteheads Steelworks, Mendalgief Road, Newport.

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Plot 159 Membrane Placement



Plot 158 to 161 Infilled Gardens

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Landscape Areas**

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