

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 37

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 37 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm fill is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: 10077 V1) has been published on 43957 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 38

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 38 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm fill is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 39

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 39 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm fill is considered top soil and organic matter and not controlled fill.
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For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 40

Terra Firma Laboratories was engaged by Streetworks as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 40 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm fill is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager

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TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 41

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 41 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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Chris Caulfield
Project Manager

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Re: Gardinia Estate Stage 2
Beaconsfield
Lot 42

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 42 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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Re: Gardinia Estate Stage 2
Beaconsfield
Lot 43

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Lot 43 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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Chris Caulfield
Project Manager

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TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 44

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 44 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Chris Caulfield
Project Manager

06 May 2020

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Re: Gardinia Estate Stage 2
Beaconsfield
Lot 45

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Lot 45 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Terra Firma Laboratories



Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 46

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 46 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 47

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 47 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Chris Caulfield
Project Manager

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Re: Gardinia Estate Stage 2
Beaconsfield
Lot 48

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 48 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Chris Caulfield
Project Manager

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TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 49

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 49 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 50

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 50 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager

06 May 2020

TO WHOM IT MAY CONCERN

Re: Gardinia Estate Stage 2
Beaconsfield
Lot 51

Terra Firma Laboratories was engaged by *Streetworks* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardinia Estate, Stage 2, Beaconsfield in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development*.

Lot 51 as defined in drawing ref 11957.2DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of

Terra Firma Laboratories



Chris Caulfield
Project Manager