

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 1

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 1 as defined in drawing ref 12455.3DP01 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 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: 10057A) has been published on 5 May 2020 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

5 May 2020

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Re: Gardenia Stage 3  
Officer  
Lot 2

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 2 as defined in drawing ref 12455.3DP01 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

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Re: Gardenia Stage 3  
Officer  
Lot 3

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Lot 3 as defined in drawing ref 12455.3DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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For and on behalf of

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Chris Caulfield  
Project Manager

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TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 13

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 13 as defined in drawing ref 12455.3DP01 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: Gardenia Stage 3  
Officer  
Lot 14

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Lot 14 as defined in drawing ref 12455.3DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Project Manager

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Officer  
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Re: Gardenia Stage 3  
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Lot 17 as defined in drawing ref 12455.3DP01 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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Lot 18 as defined in drawing ref 12455.3DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Lot 21 as defined in drawing ref 12455.3DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Lot 22 as defined in drawing ref 12455.3DP01 from *Dalton Consulting Engineers*, provided by the contractor, was included in the scope of works.

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Project Manager

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Lot 24 as defined in drawing ref 12455.3DP01 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: Gardenia Stage 3  
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Lot 26

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Project Manager

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- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
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A GITA Inspection Verification report (Reference: 10057A) has been published on 5 May 2020 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 29

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 29 as defined in drawing ref 12455.3DP01 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 2500m<sup>2</sup> in area and across several house lots.

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For and on behalf of  
**Terra Firma Laboratories**



Chris Caulfield  
Project Manager

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 30

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 30 as defined in drawing ref 12455.3DP01 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 31

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 31 as defined in drawing ref 12455.3DP01 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 32

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 32 as defined in drawing ref 12455.3DP01 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 33

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 33 as defined in drawing ref 12455.3DP01 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



5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 34

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 34 as defined in drawing ref 12455.3DP01 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 35

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 35 as defined in drawing ref 12455.3DP01 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

5 May 2020

TO WHOM IT MAY CONCERN

Re: Gardenia Stage 3  
Officer  
Lot 36

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Gardenia, Stage 3, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 36 as defined in drawing ref 12455.3DP01 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