

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 401

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 401 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material 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: D21627A) has been published on 18 Oct 2021 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 402

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 402 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material is considered top soil and organic matter and not controlled fill.
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For and on behalf of

Terra Firma Laboratories



C Caulfield
Project Manager

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TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 403

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 403 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material is considered top soil and organic matter and not controlled fill.
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- 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 404

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 404 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 405

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 405 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material is considered top soil and organic matter and not controlled fill.
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- 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 406

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 406 as defined in drawing Ref 305873CR200 from *Spiire*, 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 material is considered top soil and organic matter and not controlled fill.
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For and on behalf of

Terra Firma Laboratories



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 407

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 407 as defined in drawing Ref 305873CR200 from *Spiire*, 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 414

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 414 as defined in drawing Ref 305873CR200 from *Spiire*, 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 415

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 415 as defined in drawing Ref 305873CR200 from *Spiire*, 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



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 416

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Terra Firma Laboratories



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 417

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 417 as defined in drawing Ref 305873CR200 from *Spiire*, provided by the contractor, was included in the scope of works.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Project Manager

18 Oct 2021

TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 418

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

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Project Manager

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TO WHOM IT MAY CONCERN

Re: Kerani Heights Stage 4
Plumpton
Lot 419

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 419 as defined in drawing Ref 305873CR200 from *Spiire*, provided by the contractor, was included in the scope of works.

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C Caulfield
Project Manager

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Re: Kerani Heights Stage 4
Plumpton
Lot 420

Terra Firma Laboratories was engaged by Ginsan Constructions as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Kerani Heights, Stage 4, Plumpton in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 420 as defined in drawing Ref 305873CR200 from *Spiire*, provided by the contractor, was included in the scope of works.

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Project Manager