

Brisbane Office
Job Number: DL18/334
Ref No: 15239
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 709
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 709 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 709 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 709 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15240
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 710
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 710 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 710 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 710 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15241
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 711
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 711 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 711 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 711 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly, D.Dragun, & J Greentree
 Geologists: L.Bexley & R.Howchin
 Laboratory: M.Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15242
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 712
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 712 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 712 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 712 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTH'S		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15243
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 713
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 713 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 713 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 713 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15244
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 714
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 714 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 714 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 714 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899



Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTH'S		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15245
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 715
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 715 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 715 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 715 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15246
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 716
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 716 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 716 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 716 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15247
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 717
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 717 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 717 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 717 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15248
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 718
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 718 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 718 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 718 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899



Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15225
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 695
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 695 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 695 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 695 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15226
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 696
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 696 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 696 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 696 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15227
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 697
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 697 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 697 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 697 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15228
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 698
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 698 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 698 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 698 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15229
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 699
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 699 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 699 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 699 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

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

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15230
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 700
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 700 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 700 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 700 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15231
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 701
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 701 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 701 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 701 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899



Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15232
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 702
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 702 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 702 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 702 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15233
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 703
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 703 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 703 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 703 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899



Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15234
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 704
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 704 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 704 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 704 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15235
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 705
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 705 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 705 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 705 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15236
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 706
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 706 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15290 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 12” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 706 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 706 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15237
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 707
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 707 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 707 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 707 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale

Brisbane Office
Job Number: DL18/334
Ref No: 15238
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 708
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 12**

Earthworks filling operations were carried out on Lot 708 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15290 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 12" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 12 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 708 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 708 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

Map Description :	EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection		
Client :	SHADFORTHS		
Project :	EDENS CROSSING STAGES 12 - 14		
Project No :	DL18/334	Drawing No :	DL18/334-01
		Scale :	Not to Scale