

GREENHILL PARK RESIDENTIAL SUBDIVISION

STAGE 14

INFRASTRUCTURE DEVELOPMENT COMPLETION REPORT

POPHAM ROAD, GREENHILL PARK

CHEDWORTH PROPERTIES LTD

Our reference: 19-30378-01

Prepared for Chedworth Properties Limited



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Greenhill Park Stage 14

Infrastructure Development Completion Report

1.0 BACKGROUND

1.1 Introduction

This application relates to Greenhill Park Subdivision Stage 14 located alongside Webb Drive, south of Pardoa Boulevard.

Works included the following:

- Stage 14 subdivision roading (including Guillaume Street, Kibblewhite Road and Ogilvie Ave)
- Wastewater reticulation and lot connections
- Stormwater reticulation for roading and lot connections
- Watermain and lot connections
- Associated Streetlights
- Electrical reticulation for subdivision lots and street lighting
- Ultrafast Broadband reticulation
- Gas supply for subdivision development
- Concrete footpath construction
- Landscape planting

On the north side of Carrs Road, Stage 14 development works for 33 residential lots have been carried out under Hamilton City Council Subdivision Resource Consent 011.2018.6632, granted 05 September 2018.

This application is made on behalf of Chedworth Properties Ltd for Works Clearance from Hamilton City Council. Works clearance is sought in order to obtain certification pursuant to Section 224(c) of the Resource Management Act 1991 for Greenhill Park subdivision, Stage 14, LT 561397. A copy of the land transfer plan is included in Appendix 8.

This report addresses the key details associated with the Infrastructure provided.

1.2 Entities Involved with Development

The following companies have been involved with the construction of the Subdivision;

Developer: **Chedworth Properties Ltd Consultant Design Engineers:** Beca Consultants Consultant Engineers and Surveyors: S&L Geotech Engineer **DBCon Engineers** • Landscape Design Boffa Miskell . Landscape Planting Native Awa . Online Contractors 2016 Ltd (OLC) Head Contractor: . Subcontractors & Suppliers: **Civil Materials Supply** Hynds



| Stormwater and Wastewater | West Construction Ltd (WC) |
|---------------------------|-----------------------------------|
| Drainage | |
| Geotechnical Testing | Opus/WSP |
| Concrete Supply | Bowers Bros Concrete |
| Concrete kerbs | Waikato Construction |
| Carparks | Purrfect Paving |
| Footpaths | Purrfect Paving |
| Concrete Cutting | Ironman Concrete Cutting |
| Streetlights | lbex Lighting |
| Power Reticulation | WEL Networks – (Subcontractors: |
| | Northpower and Bayonne) |
| Road Materials Supplier | Stevenson Resources, Gleeson |
| | Quarry – Huntly |
| Road Surfacing Contractor | Higgins Contractors |
| Road Signs | Directionz Ltd |
| Road Line Marking | Linemark |
| Gas | First Gas |
| Telecommunication | Ultrafast Fibre – (Subcontractor: |
| | Civtec) |
| | |

1.3 Observation of Works

S&L undertook regular inspections of the works as the project progressed and reviewed the contractor's quality assurance measures including test results. The progress of the construction was reviewed formally at weekly site meetings as well as discussions on site with the contractor.

The observation and supervision activities by S&L were undertaken to a level of CM3 (weekly site visits) as described in the IPENZ document "Guidelines on the Briefing and Engagement of Consulting Engineering Services" with additional inspections when required by the nature of the works under construction.

1.4 As-Built Data

A full set of as-built drawings and excel spreadsheets have been appended to this document in Appendix 9 and 10. These include the as built and asset value information required in accordance with the RITS. The as built data has also been included in this application in electronic format and a copy enclosed in final works clearance report for reference.

1.5 CCTV

CCTV inspections have been completed for the wastewater and stormwater lines. The footage has been provided to Hamilton City Council separately.



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1.6 Design and Hamilton City Council Development Unit Design Acceptance

The following Approvals have been gained from the HCC Development Unit:

• Greenhill Park Stage 14 was designed by Beca Consultants and approved by HCC Development Unit.

1.7 Amendments to approved plans

Amendments from the approved plans have been made during construction as follows:

- Pavement type C Local Access Road/Lane, changed to one 200mm thick layer of GAP40 on 500mm of Blue Brown Rock CBR> 15. Refer to email confirmation included in completion report for Stage 12
- Kerbing changes made removing flush kerbs and footpaths. Refer to email confirmation included in completion report for Stage 12

2.0 EARTHWORKS

Earthworks have been carried out onsite under the supervision of S&L and DBCon Engineers. DBCon Engineers were engaged as the geotechnical engineer. The DBCon report of stage 14 subdivision earthworks and recommendations for building development is included in Appendix 1, detailing earthworks compliance with HCC RITS and NZ Standards.

3.0 ROADING INFRASTRUCTURE

3.1 Road Construction

Roads have been constructed in general accordance with the pavement shown on the approved engineering plans, except where the pavement has been changed as discussed in section 1.7 above.

Review of the road construction is as follows:

3.2 Subgrade

The underlying natural soils comprise sandy silts of varying strengths. Significant subgrade improvement works have been carried out as follows:

- Much of the Stage 14 subgrade consists of imported hardfill for the backfill of the stormwater and sanitary sewer underground lines beneath.
- All areas in the road carriageway that have not been backfilled with hard brown rock have been undercut to a minimum depth of 0.5m below subgrade level and replaced with a subgrade improvement layer of compacted hard blue brown rock.



• Subsoil drains have been laid beneath kerbs discharging into catchpits

Testing of the subgrade improvement layer included proof rolling with no visible weave, stringing by way of GPS survey, and Clegg hammer testing to confirm that a CIV>15 (CBR>15) had been achieved for all roads in Stage 14. Results of the Clegg hammer testing are included in Appendix 2(a).

A GPS survey was undertaken throughout Stage 14 and checked against the design surface. Results are included in Appendix 2(a), confirming that design pavements depths have generally been achieved to ITS tolerances.

All road subgrades have been tested using clegg hammers, showing that CBR values over 15 have been consistently achieved on all roads. The results from the Subgrade Clegg Hammer testing are summarised below:

| Subgrade | Clegg | Hammer | Results | Summary |
|----------|-------|--------|---------|---------|
|----------|-------|--------|---------|---------|

| Road 22 CH 160 - 260 | Range CIV 20 - 37 | Min Inferred CBR 28* |
|-------------------------------|-------------------|----------------------|
| (Kibblewhite Rd) | Mean CIV 27 | |
| Road 34 CH 280 – 340 (Ogilvie | Range CIV 22 - 32 | Min Inferred CBR 34* |
| Ave) | Mean CIV 28 | |
| Road 36 CH 130 - 200 | Range CIV 19 - 34 | Min Inferred CBR 25* |
| (Guillaume St) | Mean CIV 24 | |

*Note: CBR = 0.07(CIV)² formula applied in accordance with RITS

3.3 Subbase

The subbase of roads with pavement type C have been incorporated into the basecourse layer. Construction and testing methods for these roads are covered in the basecourse section below.

3.4 Basecourse

Subdivision roading comprises of the following basecourse types:

| Road 22 (Kibblewhite Rd), Road 34 (| 200mm GAP40 basecourse – |
|-------------------------------------|--------------------------|
| Ogilvie Ave) and Road 36 (Guillaume | Stevensons Tauhei |
| St) | |

QA Supplied for the basecourse included in Appendix 2(b) includes the following:

- Material testing sheets
- Stringing
- Compaction testing of the basecourse with Nuclear Densometer



- Clegg Hammer tests
- Benkelman Beam testing

<u>Stringing</u>

Stringing of the basecourse was carried out from kerbs prior to sealing. Results are included in Appendix 2(b) confirming that design pavements depths have generally been achieved to ITS tolerances.

<u>Clegg Hammer</u>

Clegg hammer testing has been undertaken on the subdivision roading basecourse showing compliance with RITS.

Nuclear Densometer

Nuclear densometer testing was carried out by Opus in order to confirm density.

Nuclear Densometer testing has been undertaken in accordance with RITS Section 3.8.2.5 & 3.8.3.4, Table 3-22. Results are included in Appendix 2(b).

The Target MDD for the GAP40 pavement is 2.22t/m3 as per Opus MDD report (project number: 2-68015.00, lab reference: HA 6289/2_VHMDD).

The Target MDD for the TNZ 40 pavement is 2.18t/m3 as per Opus MDD report (project number: 2-68015.00, lab reference: HA 6290/1_VHMDD).

Results are summarised below:

Basecourse NDM Results Summary

| Road 22 CH 160 – 260 (Kibblewhite Rd) | Min 96% of MDD (Target MDD 2.22t/m3) | Mean 98% of MDD |
|--|--|------------------|
| Road 34 CH 280 – 340 (Ogilvie Ave) | Min 100% of MDD (Target MDD 2.22t/m3) | Mean 101% of MDD |
| Road 36 CH 130 – 200 (Guillaume St) | Min 97% of MDD (Target MDD 2.18t/m3) | Mean 102% of MDD |

3.5 Benkelman Beam Results

Benkelman beam tests were carried out by WSP on the basecourse surface following surfacing. Results are summarised below:



| | Deflection (mm) | | | |
|----------------------|-----------------|-----------------|-------------------------------|-----------------|
| | Maximum (mm) | Minimum (mm) | %age over 1.8mm (A2) | Average (mm) |
| Road 22 CH 160 - 260 | 1.02 | 0.62 | 0 | 0.85 |
| Road 34 CH 770 - 850 | 1.28 | 0.68 | 0 | 1.04 |
| Road 36 CH 190 - 340 | 1.28 | 0.72 | 0 | 0.85 |

Basecourse Benkelman Beam Results Summary

Results conform to the maximum and average deflection requirements of Section 3.8.3.5, Table 3-23 of the RITS for A2 (up to 10^5 EDA) roads.

3.6 Road Surfacing

A summary of road surfacing details laid by Higgins is listed below:

Road Surfacing Summary

| Road | Membrane Seal | Surface |
|-----------------|--|----------|
| Pavement Type C | Grade 4 single coat water proofing | 30mm DG7 |
| | membrane. | |
| | Residual Application Rate: 1.0L/m ² | |
| | | |

4.0 WATER INFRASTRUCTURE

4.1 Installation

The water supply reticulation completed by Online Contractors includes the following components:

- 150mm mPVC PN12RRJ principal main
- 63mm PE80 PN12.5 ridermain
- Associated fittings, valves and hydrants
- Residential connections to all lots



Quantities and installation locations are shown on as-built records appended to this document.

4.2 Testing and Disinfection

Online Contractors Ltd carried out all aspects of pressure testing of the supply lines and disinfection prior to livening, in accordance with the ITS and in the presence of HCC.

Testing included the following items:

- Water supply pressure test result
- Water Supply disinfection
- Water Supply E Coli test

The pressure test and the observation of FAC (Free Available Chlorine) was witnessed by HCC's testing officer. The E Coli test samples were collected as part of the testing and the samples have been reviewed by HCC Officer, L. Parkes and passed.

Pressure testing results, pipe laying checklists and Bacto Test results are included in Appendix 3.

5.0 WASTEWATER INFRASTRUCTURE

Supporting quality assurance documentation for Wastewater Infrastructure supplied by the contractor and reviewed by S&L is attached in Appendix 4.

The gravity sewerage system comprises installation of the following components:

- 150mm dia uPVC SN16 wastewater main
- 100mm dia uPVC SN16 sewer laterals and lot connections
- Associated manholes.

Testing and inspection includes the following:

- CCTV inspection which has been supplied separately to Council
- Inspection of Manhole Structures
- Pressure testing of Manhole Structures by West Construction observed by HCC
- Pressure testing of 150mm dia wastewater main by West Construction observed by HCC
- As-builting by West Construction and S&L with final as-builts compiled by S&L.



6.0 STORMWATER INFRASTRUCTURE

6.1 Installation

In accordance with the approved design, stormwater from Stage 14 discharges into the Area M swales for treatment and conveyance:

• Swale 3A is located on the south side of Popham Rd and flows west.

The primary system comprises of:

- UPVC & RCRRJ stormwater mains and headwalls
- UPVC laterals and lot connections
- Road catchpits and leads
- Manholes

Observation of the works was undertaken by S&L and includes:

- CCTV inspection which has been supplied separately to Council
- Inspection of all manhole structures, catch pits, outlets and inlets
- As-builting by Online Contractors and S&L Consultants with final as-builts compiled by S&L.

QA and checklists provided by the contractor and reviewed by S&L are included in Appendix 5.

6.2 Secondary flow paths

In accordance with the approved design, the stormwater from Stage 14 discharges into swale 3A for treatment and conveyance.

A piped drainage network has been designed to collect runoff from the road and lots with standard sumps. The pipes are designed to convey (without significant surcharge) the 50% AEP flows to the network of swales downstream. Each individual lot is provided with a piped connection to the main drainage system in case on-lot soakage is not appropriate.

In events larger than a 50% AEP, secondary stormwater flows for Stage 15 will flow down the road shoulders to a low point at the road 38/39 intersection and flow north across the overland flow path (lot 507), then spill into Swale 3B that runs along the southern side of Popham Road and flows west.

See attached as-built drawings 21879-M-14-R1 and 21879-M-14-SW1 in appendix 9 showing the location and direction of stormwater overland flow.



7.0 STREET LIGHTING, STREET MARKING AND SIGNAGE

Streetlights have been designed, supplied and installed by Ibex Lighting Ltd. All quality assurance documentation for the street lights is included in Appendix 7.

Signage has been installed by OLC subcontractor Directionz Ltd in accordance with approved drawings and RITS requirements.

Carriageway paint marking has been completed by OLC subcontractor Linemark Ltd and is in accordance with approved drawings and RITS requirements.

8.0 LANDSCAPING

8.1 Hard Landscaping

There are no hard landscaping works included in stage 14.

8.2 Soft Landscaping

The landscape planting within the road reserves and the stormwater swales has been completed. An inspection by HCC Parks and Open Spaces has been completed.

9.0 NETWORK UTILITIES

Network utilities have been provided as follows.

9.1 Power

Electrical reticulation has been installed by WEL Networks for both street lighting and residential supply.

A WEL Networks works clearance statement is attached in Appendix 7.

9.2 Gas

First Gas has installed reticulation to enable future connection by individual lot owners. A completion Certificate is included in Appendix 7.

9.3 Telecommunications

Ultrafast Fibre has installed reticulation to individual lots. An acceptance letter is included in Appendix 7.

10.0 FINAL INSPECTION

A final inspection has been undertaken and was attended by Hamilton City Council's Development Engineers and associated staff from S&L and Online Contractors.

A separate inspection by Parks and Open Spaces has also been completed.



APPENDIX 1

Earthworks QA Documentation

 DBCon Engineers Report on Subdivision Earthworks & Recommendations for Building Development



APPROVED By Michael at 11:52 am, May 26, 2021



GREENHILL PARK RESIDENTIAL SUBDIVISION

STAGE 14 Area M, Greenhill Park

HAMILTON

REPORT ON SUBDIVISION EARTHWORKS AND RECOMMENDATIONS FOR BUILDING DEVELOPMENT

Our Ref: DB 171738-AREA-M-S14-01

V2 - Lot areas updated

Prepared for: Chedworth Properties Limited

Date: 26th May 2021

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| | On-lot Water Efficiency Measures Lot Levels (Minimum Lot Levels) |
| | |

1.0 Subdivision Development Earthworks

1.1 Introduction

Stage 14 of Greenhill Park is currently accessed from Kibblewhite Road. Stage 14 comprises 33 residential lots (numbered 328 and 375 to 406). The locations of these lots are shown on attached *Cut/Fill Plan*, drawing 21879-01-M14-EW1 included in Appendix I.

Bulk earthworks have been completed to re- contour the previously agricultural landscape for Stage 14 of the Greenhill Park Residential Subdivision in Hamilton. Works have been carried out in accordance with Hamilton City Council's (HCC) Subdivision Resource Consent: **011.2018.6632.001** dated: 05/09/2018. Prior to commencement of earthworks, geotechnical investigations were carried out by Beca Ltd (Beca) in 2016 [1].

HCC's Infrastructure Technical Specifications (ITS) set out the minimum standards for design and construction of public infrastructure within Hamilton City. Section 2.1.5 of the *Earthworks and Geotechnical Requirements* of the ITS states that the developer shall appoint a geo-professional to carry out functions as described in NZS 4404[5] Section 2.2.4. ITS Section 2.3.3.1 states that a geotechnical completion report shall be submitted as per NZS 4404 Section 2.6 including a statement of professional opinion on the suitability of land for building construction [4]. The developer has appointed DB Consulting Engineers (DBCE) Ltd as the geo-professional.

To satisfy the requirements of HCC's Resource Consent, the ITS and NZS 4404, this report summarizes the observations and testing undertaken during the development of the stage, discusses the suitability of the ground for the support of the proposed residential buildings and contains recommendations for the disposal of stormwater runoff generated on individual sites.

Included in Appendix I of this report is the proposed subdivision plan comprising the original Lot 605 DP 516275 and the proposed new lots 375 to 406 and 328 for Area M Stage 14. The included earthworks plan shows the cut/fill extent of the earthworks undertaken, test positions, and road and lot locations.

1.2 Earthworks in the Subdivision

The earthworks for stage 14 of the subdivision development were undertaken between December 2020 and May 2021

These earthworks comprised

- 1. The stripping of surface topsoil to expose underlying natural soils
- 2. The placement of filling within Lots 375 to 406 and 328. Although lot 402 had little to no fill placed and majority was cut.
- 3. Backfilling and raising the ground level with new fill to create uniform fill platforms.
- 4. The reinstatement of the surface topsoil cover and subsequent grassing.

Stage 14, Greenhill Park, Hamilton Subdivision Completion Report Job No: DB 171738-AREA-M-S14-01

The soils encountered during the formation of the site and road subgrades were a mixture of silts, sands and pumiceous gravels, typical of Hinuera formation deposits in this area of Hamilton. These soils were those that had been identified in pre-construction site investigations by the Beca Report. The published geology indicates that Area M soils comprise Hinuera Formation alluvium at surface with Walton Subgroup overlain by Hamilton Ash in the gently sloping hill to the south of Area M.

The filling work was undertaken using these site soils gained from areas of cut on other stages from within the larger Greenhill Subdivision. Filling was undertaken during summer 2020 when drying back of the soils was possible to close to optimum moisture contents to achieve near maximum compaction densities. The sandy alluvial soils are expected to be free draining and is suitable for re-compaction with little or no moisture conditioning needed.

Upon completion of the earthworks, approximately 100 to 300 mm of topsoil was placed across the sites and the finished surfaces were grassed in accordance with Conditions of the Resource Consent. Areas where an initial grass strike did not take place were re-grassed. While the target topsoil depths after the earthworks were to be around 300 mm, no guarantee is implied or given that the topsoil on any part of any lot is 300 mm or less and it is recommended that future owners or designers or builders check topsoil depths when preparing site development plans and cost schedules.

1.3 Earthworks Standards

The earthworks in filling were undertaken using in situ Silty SAND and sandy SILT, silts mixtures gained from areas of cut across the larger subdivision and already used for the earlier stages of the development. The standards for the placement of filling, as stated in the earthworks contract documents, were to comply with NZS 4431:1989 "Code of Practice for Earth fill for Residential Development" and the Council ITS. Filling placed to these standards may be considered as good ground in terms of NZS 3604:2011 "Timber Framed Structures."

The compaction of the filling placed was monitored and tested for compaction density using a hand-held shear vane in finer grained silts and Silty CLAY. Adequate strengths would be achieved when an undrained shear strength of 100 kPa or more had been developed in silts and clays and 5 blows per 100mm with a scala penetrometer in more granular soils.

Materials used where the same basic strata as being used for the previous Stages of works, with a high level of consistency based on previous test results.

1.4 Filled Ground

During the placement of filling on the road subgrades and on areas intended for residential development, the contractor, OLC, stripped and removed all topsoil and buried unsuitable soils, including some historical rubbish/debris. Post construction testing was carried out to confirm the interface between the cut and fill. Filling was placed in discrete layers with compaction applied through sheepsfoot drum rollers and smooth drum rollers. As most of the filling placed comprised the Silty SAND and Sandy SILT identified in the pre subdivision boreholes, testing of the compaction achieved was mostly undertaken with a handheld shear vane and NDM testing (Nuclear Density Meter).

The results indicate that the construction filling standards have been met. Foundations may therefore be detailed to NZS 3604:2011 where a timber framed subfloor containing shallow piles, bearers and joists is contemplated. Concrete floors designed to NZS3604 can be used on lots where filling is less than 2.3m deep. Other lots will require further investigation and will require specific design. Specifically, any foundations on zones of fill over 2.3m deep should have site specific investigations taken below the base of the fill into the natural ground. Specific foundation design may entail either an engineered waffle slab or piled foundations embedded into the natural ground. These include Lots 328, 387, 392, 393, 399, 400.

1.5 Areas of Cut

Areas partly developed in cut are shown on 21879-01-M13-EW1 (Appendix I). Lots 384-385, 394, 328 and 401-406 had between 100mm–500mm of cut material. Only lot 402 is shown to be developed primarily in cut. In these areas, the ground at formation levels was observed to comprise the same silts and sands that had been used for filling elsewhere and as identified by pre subdivision tests.

1.6 Test Results in Filling Placed

A summary of the completion tests undertaken by DBCE is present in Appendix IV. The test positions are shown on 21879-01-M14-EW1 and the test results are in Appendix IV.

The shear vane and scala penetrometer test results show that acceptable soil strengths had been developed in all fill areas tested.

1.7 Test Results in Areas of Cut and Natural Ground

Only lot 402 is shown to be developed primarily in cut around 0.1m to 0.5m. Upon testing, there is a 300mm layer of fill observed. The natural ground under the filling comprised of silty sands and sands as had been identified in the pre-subdivision investigation boreholes.

The results of the tests undertaken indicate that "good ground" as defined in NZS3604:2011 is present. No areas that were tested will require any future ground improvement work for buildings supported

1.8 Land Hazards

1.8.1 Land Stability

There are no landform stability issues within Stage 14 of the Greenhill Park Subdivision. The specification from the developer for the site earthworks was that the lots were to be graded as flat as possible with a desirable gradient of 0.5%.

1.8.2 Flooding

The final lot levels have been set based on infrastructure requirements and freeboard from flood levels developed as part of the stormwater design for the larger subdivision. The means of disposal of stormwater runoff from lots in this stage of the subdivision are described in the catchment and overland flow assessments by

Beca (interpretive Report Lot Levels Area M). In the report for area M, a 1% AEP flood event is identified for each swale system. The two relevant swales for Stage 14 are Swale 1D and 3A. A flood level of 36.40 to 38.00 mRL. has been used in assessing the flood risk in stage 14. This equates to minimum lot levels of 39.017 to 39.428 R.L. across the stage (with low being the west end and high being the east end). A list of Lot Levels for Stage 14 is included in Appendix V.

Site grading during house construction must not lower finished levels below the minimum finished ground levels identified by Beca without further review of the impacts on flooding. Earthworks must not direct stormwater runoff to adjacent properties, or towards buildings, or create areas of localized ponding. All overland flow is to be towards the road frontage on each section, where falls will direct surface flow towards the Swale 1D and Swale 3A.

It is the responsibility of the building design professional to ensure that the requirements for mitigation for the hazard of flooding are met by the design prior to submitting to Council for consent. Confirmation of the swale construction and flood levels are excluded from the scope of this report and are to be covered separately with sign-off of infrastructure works.

1.8.3 Liquefaction

The potential for the hazard of liquefaction for Area M of the Greenhill Park Subdivision is discussed in "Greenhill Park Geotechnical Interpretation and Design - Area M" by Beca and dated 13 July 2018. Foundations within 5m of the top of the swales are classed as TC2 like foundations. The liquefaction summary plan is appended to this Completion report. Specifically, the requirements are:

- 0m 1.5m no habitable dwellings to be built within 1.5 m of the swale crest.
- 1.5 5m adopt an enhanced TC2 _like foundation
- Beyond 5m of swale crest no specific requirements to mitigate liquefaction effects.

The Beca report refers to zones adjacent to the swales being in a TC2 type area as is defined in guidelines published by the Ministry of Business, Innovation and Employment (MBIE). MBIE recommends that TC2 type foundations should typically include 'an enhanced foundation slab' as is currently being installed for new houses in Christchurch. Alternatively, MBIE advises that houses may be supported on timber piles and a timber framed subfloor as detailed in NZS 3604 to meet a Type A construction as described in their guidelines. For Stage 14 none of the lots are affected by swale so no specific requirements are needed to mitigate liquefaction.

1.8.4 Expansive Soils

The underlying soil conditions are primarily non-expansive sand strata and shallow slightly expansive silt layers. Zones of fill are encountered across the sites, with deeper fill located in all lots. The backfill is typically silty sand and not considered expansive. Overall, Stage 14 is underlain by non or slightly expansive soils. Any soils with a higher expansivity are expected to be limited in extent, and

unlikely to result in changing the soil class. For purpose of foundation recommendations, where M Class foundations are recommended, this is to address the greater depth of fill under these sites and therefore greater variability in the ground conditions. This is not to say the strata is moderately expansive, but that it may perform with comparable movement.

2.0 Disposal of Stormwater

Greenhill Park has been designed with a swale network to limit peak flows from the subdivision to 80 % of the 1 % AEP pre-development rate, and 90 % of the 10 % and 50 % AEP pre-development rates (Beca Ltd. [2016] Greenhill Park - Stormwater Design, for Chedworth Properties Ltd, 29 June 2016). Area M has been designed to include roadside swales flowing in an approximately east to west direction. Stage 14 is influenced by swale 1, 1D and 3A. The depth of the swales has been designed to accommodate the fall and cover depth required of the piped drainage system. The piped drainage network has been designed to convey the 50 % AEP flows from roads and lots to the swale network, with each lot to be provided with a piped service connection. The stormwater plan is presented in the S&L Drawing 'Stormwater as Built DWGs reported separately.

All lots will require on-site stormwater efficiency measures as per the District Plan requirements (Rule 25.13.4.5 Water Efficiency Measures). These include:

- Detention of stormwater to 80% of pre-development runoff by an appropriate means. This has largely been achieved by the swale network for events greater than the 50 % AEP storm. For the 50 % AEP and smaller events, the stormwater efficiency measures are expected to provide sufficient additional mitigation to achieve this requirement.
- 2. Permeable surfaces protected to achieve at least 20% above the minimum standard of the zone (i.e., 40 % site permeability).
 - a. Sites within the Ruakura Medium Density Residential Zone require a minimum permeability of 20 % (Rule 4.6.5) and are limited to 50 % site coverage (Rule 4.6.6).
- 3. Rainwater tank for non-potable reuse system
- 4. Other equivalent features

Stormwater management must ensure that the rate of stormwater discharge offsite is at or below pre-development rates. Stormwater management measures shall be implemented, as appropriate, in accordance with the following drainage hierarchy:

- 1. Retention for reuse
- 2. Soakage techniques
- 3. Detention and gradual release to a watercourse
- 4. Detention and gradual release to stormwater reticulation.

Section 42 of the Subdivision Resource Consent (SRC) relating to Stages 9-15 state that "Each residential lot shall be provided with a means for disposal of stormwater, with no private stormwater pipes or soakage systems crossing from one lot to another except were covered by an easement"

Section 43 of the SRC states that water efficiency measures for the individual residential lots are to be detailed for each subdivision stage. "Where retention for reuse tanks is proposed they shall be a minimum of 5,000L to ensure they are effective or where the lot is less than 300m2

should be appropriately designed considering the specific site constraints. The required stormwater efficiency measure is to be implemented at the building consent stage and maintained on an on-going basis at the owners' expense".

Section 44 of the SRC requires a consent notice on each title advising of the required water efficiency measures to be implemented and maintained on an ongoing basis.

Section 55 of the SRC states the requirement for lot development to be undertaken in general accordance with the recommendations in the report: Greenhill Park Geotechnical Interpretation and Design – Area M, prepared by Beca Ltd., 13 July 2018.

In the Stage 14 development area, each site is to be tested for soakage capability by the property owners. For those sites that have a sufficient soakage capability, disposal of stormwater is to be undertaken onsite using soakage and/or bioretention systems with overflow to the lot stormwater service connection. Those sites that are not soakage viable are to retain stormwater for reuse by way of a Slimline Rain Tank or other similar type water tank. The size of the tank is to be 5000 litres and the tank is to be plumbed into the house for use as a non-potable water supply including for garden irrigation and in general accordance with the HCC guidelines for the Implementation of Water Efficiency Measures. The Slimline rain tank system is described in Appendix V. This requirement will be advised to purchasers and will be implemented through the building consent process by HCC. A consent notice is to be registered on the certificates of titles for each lot which describes these investigation and design requirements.

Details of the required stormwater measures are included in Appendix V, sourced from the Greenhill Park Design Guidelines.

3.0 Retaining Walls

There are no retaining walls that were constructed by the developer within stage 14.

4.0 Professional Opinion

It has been demonstrated in this Geotechnical Completion Report, that earthworks have been completed and building platforms have been constructed to comply with Council's ITS specifications and the New Zealand Building Code. Recommendations have been provided within the report for the disposal of stormwater from individual lots, for the ongoing development of the lots and for the mitigation of liquefaction risk where applicable.

In accordance with ITS Section 2.3.3.1, a statement of professional opinion is enclosed in Appendix II of this document. This statement is presented in the form of Checklist 2.2 of Council's Development Manual, Volume 4: Quality Systems for Land Development, and is accompanied by a *Summary of Geotechnical Data for Individual Lots* which summarizes the information and recommendations contained in this report.

5.0 Applicability

Recommendations contained in this document are based on data from observations of site earthworks, boreholes, and test results. Inferences about the nature and continuity of subsoils away from these locations are made but cannot be guaranteed.

In all circumstances, if variations in the subsoils occur which differ from those described or are assumed to exist, the site should be inspected by an engineer suitably qualified to make an informed judgement and provide advice on appropriate improvement measures.

This report has been prepared specifically for Stage 14 as shown for Lots: 375-406 and 328, DP543207 of Area M Stage 14 within the Greenhill Park Residential Subdivision. No responsibility is accepted by DB Consulting Engineers Ltd for the use of any part of this report for other development sites without their written approval.

Report Prepared By:

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Date: 14th May 2021

Aaron Kennedy Civil Engineer

Report Reviewed By:

Date: 26th May 2021

Michael Richardson Senior Engineer

.....

References

- [1] Ruakura Land Development LDP Geotechnical Factual Report by Beca, 15 April 2016.
- [2] C. Hughes and K. Read, "Ruakura Development Stage 1 Geotechnical Investigation Liquefaction Potential Detailed Assessment," Opus International Consultants, Ltd., Hamilton, New Zealand, 2014.
- [3] M. Hughes and L. Shuler, "Report on Preliminary Geotechnical Investigation, Ruakura Development, Hamilton," S&L Consultants, Ltd., Tauranga, New Zealand, 2015.
- [4] "Section 2 Earthworks and Geotechnical Requirements," in *Infrastructure Technical Specifications*, Hamilton, New Zealand, Hamilton City Council, 2013.
- [5] "NZS 4404 Land Development and Subdivision Infrastructure," in *New Zealand Standards*, Wellington, New Zealand, Standards New Zealand, 2010.
- [6] "Greenhill Park Geotechnical Interpretation and Design-Area 1" by Beca 28 October 2016.
- [7] "Part 5: Earthquake Actions New Zealand," in NZS 1170.5:2004 Structural Design Actions, Standards New Zealand, 2004.
- [8] "Greenhill Park Design Report Area I (Stage 5, 6, 7 & 8) by Beca 20 December 2016
- [9] "Clause B1: Structure," in Acceptable Solutions and Verification Methods For New Zealand Building Code, Wellington, Ministry of Business, Innovation and Employment, 2014.
- [10] "Part A: Technical Guidance," in *Repairing and rebuilding houses affected by the Canterbury earthquakes*, Wellington, Ministry of Business, Innovation and Employment, 2012.
- [11] "Clause E1: Surface Water," in *Acceptable Solutions and Verification Methods For New Zealand Building Code*, Wellington, Ministry of Business, Innovation and Employment, 2014.
- [12] "Section 4 Stormwater," in *Infrastructure Technical Specifications*, Hamilton, New Zealand, Hamilton City Council, 2015.

| Appendix I | <u>Reference Drawings</u> Subdivision Plan |
|------------|--|
| | Cut/Fill Plan 21879-01-M14-EW1 Site |
| | Levels Plan |



(s&L) SHRIMPTON & LIPINSKI LAND DEVELOPMENT & DESIGN SPECIALISTS Ph. 07 577 6069 Email: info@sltga.co.nz P.O. Box 231, Tauranga 3140 www.sltga.co.nz LEGEND DBCON GEOTECH TEST LOCATIONS 0.8 DEPTH OF FILL CUT COLOUR CUT/FILL CONTOUR INTERVAL: 0.25M DESCRIPTION DRN CKD APP Rev NP SC SC NP SP SP PRELIMINARY 05/21 AS-BUILT NP SP 05/21 NEW SURFACE ADDED NP SC BP 05/21 NAME DATE SURVEYED ONLINE 28/4/21 DESIGNED NAME DATE COORDINATE SYSTEM: NZGD 2000 - MT EDEN CIRCUIT ORIGIN OF COORDINATES: ALP3 DP 534481 HEIGHT DATUM: MOTURIKI DATUM ORIGIN OF HEIGHT: SS 507 SO 42451 RL = 44.04 **GREENHILL PARK** STAGE 14 CUT / FILL PLAN PREPARED FOR Chedworth GREENHI Properties Limited ORIGINAL SCALES @ A3 STATUS AS-BUILT 1:750 DO NOT SCALE DIMENSIONS DRAWING NO REVISION 21879-01-M14-EW1 AC COPYRIGHT ON THIS DRAWING IS RESERVE



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| | A | SHRIMPTON & LIPINSKI SHRIMPTON & LIPINSKI LAND DEVELOPMENT & DESIGN SPECIALISTS P.O. 80x 231, Tauranga 3140 www.sitga.co.nz |
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| | G | SECTION LEVELS & FLOW GEOTECHNICAL REQUIREMENT STAGE 14 AREA M |
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| | | Properties Limited GREENHILL |
| | Н | ORIGINAL SCALES @ A3 STATUS 1:750 AS-RUIII T |
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Appendix II Geotechnical Completion Forms

Checklist 2.2 - Statement of Professional Opinion Summary of Geotechnical Data for Individual Lots Summary of Geotechnical Data for individual Lots

NZS 4404: 2010 SCHEDULE2A (Checklist 2.2)

STATEMENT OF PROFESSIONAL OPINION AS TO SUITABILITY OF LAND FOR BUILDING CONSTRUCTION

Development: Greenhill Park Stage 14 Developer: Chedworth Properties Limited

At Pardoa Boulevard, Chartwell, Hamilton

I, Michael Richardson of DB Consulting Engineers, PO Box 1123, Taupo

Hereby confirm that:

- **1.0** I am a geo-professional as defined in clause **1.2.2** of NZS 4404:2010 and was retained by the developer as the geo- professional on the above development.
- 2.0 The extent of my inspections during construction, and the results of all tests carried out are described in my geotechnical completion report for Greenhill Park Area M Stage 14 dated 14 May 2021 (reference 171738-AREA-M-S14-01)
- 3.0 In my professional opinion, not to be construed as a guarantee, I consider that:
 - a. The completed works give due regard to land slope and foundation stability considerations.
 - b. The site ground affected by engineered certified filling is suitable for the erection there on of buildings designed according to the report recommendations provided that:
 - i. Lots 375-406 and 328 are subject to the recommendations in the summary for individual lots and specific design as required to address variable ground. Engineered Waffle slabs or similar are expected as an appropriate foundation type for sites requiring specific design. Alternatively, piled foundations and timber floors may be required with piles embedded into natural ground below the fill soils.
 - ii. All lots are subject to an engineering inspection during foundation excavations unless further soils testing is carried out for building consent. Council requirements are for a minimum 4 soils tests per lots to be carried out for building consent. Specific lots have been identified as requiring further deeper investigations if buildings are located over fill greater than 2.0m deep, specifically Lots 328, 387, 392, 393, 399,400. Ground investigations should be taken into the natural ground below filling. Specific design by a suitably qualified engineer will then be required on the identified sites allowing for increased variability and performance between the compacted engineered fill and the natural ground, particularly at the transition between fill depths.

Date: 26 May 2021

- 4.0 This professional opinion is furnished to Hamilton City Council and the developer for their purposes alone on the express condition that it will not be relied upon by any other person and does not remove the necessity for the normal inspection of foundation conditions at the time of erection of any dwelling.
- 5.0 This certificate shall be read in conjunction with my geotechnical completion report referred to in clause 2 above and shall not be copied or reproduced except in conjunction with the full geotechnical completion report.

Chartered Professional Engineer (Geotechnical) CPEng 1005467

Location: Stage 14, Greenhill Park, Hamilton Subdivision Geotechnical Completion Report Job No:DB 171738-AREA-M-S14-01

Summary of Geotechnical Data for Individual Lots

| DP No | o: TBC | Pro | perty | Address | | | | Greenhill Pa | ·k, Stage | 14, Ha | mil | ton | | | | | | | RC No: | 11/2018/6632 |
|-------|--------|----------|----------|-----------------------------------|-----------------------------------|---------------------|-----------------------------|---|--------------------|-------------------------|----------------|-----------------------|---------------|---------------------------|----------------------------|---------------|----------------------------|--------------|--------|--------------|
| | | | | Subsurfa | ace Data | | | Foundatio | ns | B | 'S | | | D | | | | | | |
| | | Shear | Sub I | odivision Filling | Natural Topography Unworked | Na Topo Earth | atural ography worked | Conventional Shallow Foundation to NZS 3604:2011 | Specific Design | uilding Restrio Line | /W Specific De | S/W Soakag | S/W Reticulat | esignated Bui Platform | vlinimum Buili Platform | òmpressible ! | On-site Efflue Disposal | Consent Noti | | |
| Lot | Area | Strength | Y/N | Depth | Y/N | Y/N | Depth | Y/N/NA | Y/N/NA | ctior | esigr | ë | ted | lding | ding | Soils | ent | ice | | |
| No: | (m²) | (kPa) | N/ | (m) | N | v | (mm) | N | V | | | ×4 | | 04 | N I | N. | | V | | Comment |
| 328 | 460 | Note 1 | Y | $1.3-4.1^3$ | N | Y | 30003 | N | Ŷ | N | Ŷ | Υ ⁴ | N | N | N | N | N | Y | | |
| 375 | 335 | Note 1 | Y | $0.2 - 1.4^2$ | N | Y | 2002 | Y | N | N | Y | Y ⁴ | N | N | N | N | <u>N</u> | Y | | |
| 3/6 | 380 | Note 1 | Y | $0.4 - 1.9^{2}$ | N | Y | 200- | Y | IN N | IN N | Y | Υ ⁻ | IN N | IN N | N N | N N | | Y | | |
| 3// | 310 | Note 1 | Y | $0.6 - 1.9^{2}$ | N | Y | 1100° | Y | IN N | IN N | Y | Υ · | IN N | IN N | N N | N N | | Y | | |
| 3/8 | 248 | Note 1 | Y | $0.7 - 1.7^{2}$ | N N | ř V | 200- | Y | IN N | IN NI | Y | Υ ⁻ | IN N | IN N | IN N | IN N | | Y | | |
| 3/9 | 228 | Note 1 | Y | $0.9 - 2.0^{2}$ | N N | Y | 200 ² | Y | IN N | IN NI | Y | Υ ⁻ | IN N | IN NI | IN N | IN N | | Y | | |
| 380 | 224 | Note 1 | Y V | $0.1-2.1^{-2}$ | N N | ř V | 200 ⁻ | ř V | IN N | IN NI | ř V | Υ ⁴ | IN N | IN NI | | IN N | | ř V | | |
| 381 | 222 | Note 1 | Y V | $0.2 - 2.2^{-1}$ | N N | ř V | 200 ⁻ | ř V | IN N | IN NI | ř V | Υ ⁴ | IN N | IN NI | | IN N | | ř V | | |
| 382 | 210 | Note 1 | T V | 0.9-2.1 | N | T V | 200 200 ² | 1 V | IN N | | ı v | 1 V4 | | | | N | | T V | | |
| 202 | 400 | Note 1 | T V | 0.0-1.1 | N | T V | 200 200 ² | l V | N | N | T V | 1 V ⁴ | N | N | N | N | | T V | | |
| 205 | 300 | Note 1 | v | 0.1-1.2 | N | v | 200 200 ² | v | N | N | v | 1 V4 | N | N | N | N | | ı v | | |
| 386 | 300 | Note 1 | v | $0.0^{-1.2}$ | N | v | 200 200 ² | v | N | N | v | v ⁴ | N | N | N | N | N | v | | |
| 387 | 345 | Note 1 | Y | 0.1-2.0 | N | Y | 1600 ³ | N | V V | N | Y | ν 4 | N | N | N | N | N | Y | | |
| 388 | 450 | Note 1 | Ŷ | 0.3 - 3.4 0.8-1.5 ² | N | Y | 200 ² | Y | N | N | Y | Υ ⁴ | N | N | N | N | N | Y | | |
| 389 | 349 | Note 1 | Ŷ | 0.8-1.9 ² | N | Ŷ | 200 ² | Y | N | N | Ŷ | Υ ⁴ | N | N | N | N | N | Ŷ | | |
| 390 | 450 | Note 1 | Ŷ | $0.3 \cdot 1.9^2$ | N | Ŷ | 200 ² | Y | N | N | Ŷ | Υ ⁴ | N | N | N | N | N | Ŷ | | |
| 391 | 320 | Note 1 | Y | 0.1-2.0 ² | N | Y | 200 ² | Y | N | N | Y | Y ⁴ | N | N | N | Ν | N | Y | | |
| 392 | 300 | Note 1 | Y | 0.4-3.1 ³ | N | Y | 2600 ³ | N | Y | N | Y | Y ⁴ | N | N | N | Ν | N | Y | | |
| 393 | 305 | Note 1 | Y | 0.3-3.1 ³ | N | Y | 2600 ³ | N | Y | N | Y | Y ⁴ | Ν | Ν | N | Ν | N | Y | | |
| 394 | 400 | Note 1 | Y | 0.4-1.6 ² | N | Y | 200 ² | Y | N | N | Y | Y^4 | Ν | N | N | Ν | Ν | Y | | |
| 395 | 305 | Note 1 | Y | 0.0-1.2 ² | N | Y | 200 ² | Y | N | Ν | Y | Y^4 | Ν | Ν | Ν | Ν | Ν | Υ | | |
| 396 | 340 | Note 1 | Y | 0.7-0.9 ² | N | Y | 200 ² | Y | N | Ν | Y | Y^4 | Ν | Ν | N | Ν | Ν | Υ | | |
| 397 | 349 | Note 1 | Y | 0.8-1.7 ² | N | Y | 200 ² | Y | N | N | Y | Y^4 | Ν | N | N | Ν | Ν | Y | | |
| 398 | 400 | Note 1 | Y | 0.2-1.9 ² | N | Y | 1300 ³ | Y | N | Ν | Y | Y^4 | Ν | N | N | Ν | Ν | Y | | |
| 399 | 319 | Note 1 | Y | 0.2-4.1 ³ | N | Y | 3000 ³ | N | Y | N | Y | Y^4 | Ν | Ν | Ν | Ν | Ν | Y | | |

Greenhill Park Residential Subdivision, Stage 14, Hamilton

Report on Subdivision Earthworks and Recommendations for Building Development

Job No: DB 171738-AREA-M-S14-01

Summary of Geotechnical Data for Individual Lots

| | | | | | | | - | | | | | | | | | | | | |
|-----|-----|--------|---|----------------------|---|---|-------------------|---|---|---|---|-----------------------|---|---|---|---|---|---|--|
| 400 | 322 | Note 1 | Y | 0.2-4.1 ³ | N | Y | 3000 ³ | Ν | Y | Ν | Υ | Y^4 | Ν | Ν | Ν | Ν | Ν | Υ | |
| 401 | 450 | Note 1 | Y | 0.0-0.9 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |
| 402 | 457 | Note 1 | Y | 0.1-0.2 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |
| 403 | 407 | Note 1 | Y | 0.4-0.6 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |
| 404 | 406 | Note 1 | Y | 0.4-0.6 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |
| 405 | 406 | Note 1 | Y | 0.4-0.6 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |
| 406 | 407 | Note 1 | Y | 0.0-0.6 ² | N | Y | 200 ² | Y | N | Ν | Υ | Y ⁴ | Ν | Ν | Ν | Ν | Ν | Υ | |

NOTES: 1) Testing undertaken with Shear vane and scala.

2) This considers approximately 200mm of topsoil removal across all lots prior to subdivision filling. Actual topsoil depths varied between 100-400mm.

3) Zones with greater than 2.3m filling have been subject to undercutting and removal of fill during earthworks. Backfilling of these zones have been carried out with engineered compacted fill. However, the increased variability of the underlying ground conditions will require specific design for any foundations spanning areas of fill greater than 2.3m deep.

4) Soakage testing required on individual lots based on the subdivision consent notice. Ground soakage and stormwater storage devices required.

Appendix IIIPre-Construction Assessment (exerts)BECA Area M Liquefaction Assessment Summary Plan



Appendix IV <u>Post-Construction Test Results</u>

Completion Testing by DCBE Ltd



Depth

(mm)

| - | 72-5574 | | Project Name | Job Ref. | | | | | | | | |
|--------------------------|-------------|------------------------------------|--------------------------------------|--|---------------|-----------|--|--|--|--|--|--|
| | D | CONSULTING | Greenhill, Subdivision 1 Stage 14 | 171738-AREA-M-S14-0 | | | | | | | | |
| | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site | | | | | | |
| | | | GetGeo | 6/05/2021 | 1 | Lot 375 | | | | | | |
| | No of | Scala Penetrometer | | | I | | | | | | | |
| Undrained Shear (kPa) | blows | (Blows/100mm) | Soil D | Soil Description | | | | | | | | |
| | /100mm | 0 2 4 6 8 10 12 14 16 | | | | Tuble | | | | | | |
| | 2 | Good Ground | FILL, resprea | ad topsoil, grave | S | | | | | | | |
| | 3 2 | Result | medium dense | | | | | | | | | |
| | 7 | | Engineered FILL, si | lt, sand, angular | gravels | | | | | | | |
| | 5 | | brown, dry t | o moist | 0 | | | | | | | |
| | 5 | | 200-500mm dominated by Sar | nd, some silt, mixe | d browns | | | | | | | |
| | 7 | | minor fine gravels | | | | | | | | | |
| | 6 | | E00 1000mm dominated by C | t come ancular | rovolo | | | | | | | |
| | 4 | | minor sand, mixed brown and | 500-1200mm dominated by Silt, some angular gravels | | | | | | | | |
| | 8 | | | cical biowin | | | | | | | | |
| | 7 | | 1200-1400mm silt, sand some | gravels | | | | | | | | |
| | 11 | | minor topsoil | | | | | | | | | |
| | 15 | | | | | | | | | | | |
| | 11 | | dense | | | | | | | | | |
| | 9 | | Gravelly SAND, o | lark grey-brown, | moist | | | | | | | |
| | 7 | | _ | | | | | | | | | |
| | 5 | | - | | | | | | | | | |
| | 5 | | | | | | | | | | | |
| | | | EOB | 3@2.0m | | | | | | | | |
| | | | Targ | | | | | | | | | |
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| | | | 1 | | | | | | | | | |
| | F | EOB = End Of Borehole | P = Unable To Penetrate | UTE = Unabl | e To Extract | | | | | | | |
| Veather leadi | ng up to te | est was fine and cool, no recent s | significant rain | 0.14M | | | | | | | | |
| round water | was not e | encountered during testing | | | | | | | | | | |
| hear Vane re | eadings ar | re converted readings, as per cali | ibration Certificate. (Values a | re undrained sh | ear strength) | | | | | | | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



Depth (mm)

| - | _ | | TILLO | Project Name Greenhill, Subdivision T | Job | Ref. | | |
|--------------------------|--|--|---|--|---|-------------------------|-------------|--|
| D | R | | LIING | Stage 14 | . | 1/1/38-AR | :A-M-514-01 | |
| - | | ENGIN | ERS | Tested by | Date | Sheet No. | Test Site | |
| | | - | | 2 | 376 | | | |
| Indrained hear (kPa) | 1 | Scala Pe (Blows | netrometer s/100mm) 3 10 12 14 16 | Soil D | Water Table | | | |
| | 2 5 6 3 3 8 3 3 4 4 | | Ground Results | FILL, resprea Engineered FILL, s minor pumiceous minor topsoil medium dense Silty SAND, yellow-br | ad topsoil, grave ilt, sand, angular materials, brown | s gravels , moist | - | |
| | 5 5 6 7 6 7 11 8 | | | minor silt, some gravels, grey- dark brown gravelly Sand, some pumice, | brown minor silt, dark ora | nge-brown | | |
| | 6 | | | EOF | 3 @ 2.0m jet Depth | | | |
| | | | | | | | | |
| eather leadir | E to true to | OB = End Of Be | cool no recent s | P = Unable To Penetrate | UTE = Unabl | e To Extract | | |
| ound water viear Vane re | was not e adings ar | encountered durin re converted reac | ing testing lings, as per calil | bration Certificate. (Values a | re undrained sh | ear strength) | | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021
| | | | | Project Name Greenhill, Subdivision 1 Stage 14 | Festing Area M, | Job 171738-AR |) Ref. E A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|--|---------------------|------------------|-------------------------------|
| | | B | NGINEERS | Tested by | Date | Sheet No. | Test Site |
| <u>/</u> | | - | | GetGeo | 6/05/2021 | 3 | 377 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil I | Description | | Water Table |
| 100 | | 2 | Good | FILL, respre | ad topsoil, grave | s | |
| 200 | | 3 | ground | | | | |
| 300 | | 6 | | medium dense to very dense | | | |
| 400 | | 7 | | _ | | | |
| 500 | | 8 | | Engineered FILL, s | sand, silt, angulai | r gravels | |
| 600 | | 8 | | greys and | d browns, moist | | |
| 700 | | 8 | | | | | |
| 800 | | 9 | | interbedded Silt some sand a | nd Sand, minor silt | | |
| 900 | | UTP | | _ | | | |
| 1000 | | | | interspersed angular gravels | and some interbed | ded layers | |
| 1100 | | | | _ | | | |
| 1200 | | 4 | | _ | | | |
| 1300 | | 8 | | _ | | | |
| 1400 | | 7 | | _ | | | |
| 1500 | | 15 | | | | | _ |
| 1600 | | 16 | | dense | | | |
| 1/00 | | UIP | | CAND when the star | | | |
| 1800 | | | | SAIND, MINOR SIIT, MINO | or graveis, dark b | rown, moist | |
| 1900 | | - | | some gravels, dark brown and | a dark grey | | |
| 2000 | | | | ΓΩ | D @ 2.0m | | - |
| 2100 | | | | _ EU | D @ 2.011 | | |
| 2200 | | | | I di | get Depth | | |
| 2300 | | | | _ | | | |
| 2400 | | | | _ | | | |
| 2500 | | | | _ | | | |
| 2000 | | | | _ | | | |
| 2800 | | | | - | | | |
| 2000 | | | | _ | | | |
| 3000 | | | | _ | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | - | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| Notes | | F | OB = End Of Borehole | P = Unable To Penetrate | IITE – IInah | e To Extract | |
| 1 | Weather leading | ם na up to te | est was fine and cool, no recent | significant rain | | | |
| 2 | Ground water | was not e | ncountered during testing | | | | |
| 3 | Shear Vane re | adings are | e converted readings, as per cali | ibration Certificate. (Values | are undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | oossible | | <i>.</i> , | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/202 | 1 | | | Rev2.8 |

| | | | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARE | Ref. A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|--------------------|-------------------|---------------------------|
| | | Ы | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | | GetGeo | 6/05/2021 | 4 | 378 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 3 | Result | FILL, resprea | d topsoil, gravel | S | |
| 200 | | 3 | Good | | | | |
| 300 | | 4 | Ground | medium dense | | | |
| 400 | | 8 | | | | | |
| 500 | | 9 | | Engineered FILL, si | lt sand, angular | gravels | |
| 600 | | 9 | | different fractions don | ninating at differ | ent levels | |
| 700 | | 12 | | mixed brow | ns, dry to moist | | |
| 800 | | 7 | | | | | |
| 900 | | 6 | | | | | |
| 1000 | | 5 | | | | | |
| 1100 | | 5 | | | | | |
| 1200 | | 4 | | | | | |
| 1300 | | 7 | | | | | |
| 1400 | | 7 | | significant gravels | | | |
| 1500 | | UTP | | | | | |
| 1600 | | | | | | | |
| 1700 | | 4 | | | | | |
| 1800 | | 7 | | | | | |
| 1900 | | 5 | | Silty SAND, some pumiceo | us materials, grey | -brown, moist | |
| 2000 | | 5 | | some gravels, dark brown | | | |
| 2100 | | | | EOB | @ 2.0m | | |
| 2200 | | | | Targ | et Depth | | |
| 2300 | | | | | | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 2600 | | | | - | | | |
| 2700 | | | | _ | | | |
| 2800 | | | | | | | |
| 2900 | | | | | | | |
| 3000 | | | | | | | |
| 3100 | | | |] | | | |
| 3200 | | | | | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | | | | |
| Notes: | Weather leadi | E Baun to tr | COB = End Of Borehole UTI | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| 2 | Ground water | was not a | ncountered during testing | nyimicani rani | | | |
| 3 | Shear Vane re | adinas ar | e converted readings as per calil | bration Certificate. (Values a | e undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | lude Re-moulded values where p | ossible | | ou onguly | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | l | | | Rev2.8 |



(mm)

| Stage 14 17/738-AREAM/S14-01 Stage 14 17/738-AREAM/S14-01 Stage 14 17/738-AREAM/S14-01 Stage 14 Date Sheet No. Test Site dtrained blows Scala Penetrometer (glows/100mm) Soil Description Water Table 2 1 Soil Description Water Table 2 1 Engineered FILL, sill, sand, angular gravels 3 1 1 Engineered FILL, sill, sand, angular gravels 2 1 Engineered FILL, sill, sand, angular gravels 3 1 1 Engineered FILL, sill, sand, angular gravels 3 1 1 Engineered FILL, sill, sand, angular gravels 3 1 1 Engineered FILL, sill, sand, angular gravels 4 1 1 1 1 4 1 1 1 1 1 4 1 1 1 1 1 4 1 1 1 1 1 4 1 1 1 1 1 1 5 1 1 <t< th=""><th>-</th><th>_</th><th></th><th></th><th></th><th></th><th>Project Name Greenhill, Subdivis</th><th>esting Area M,</th><th colspan="3">Job Ref.</th></t<> | - | _ | | | | | Project Name Greenhill, Subdivis | esting Area M, | Job Ref. | | |
|---|-------------------------|--|--------|------------------------|---|--------------------------|---|----------------|--------------------|---------------|----------------|
| Tested by Date Sheet No. Test Site GetGeo 6/05/2021 5 379 udrained blows No of blows Scala Penetrometer (Blows/100mm) Soil Description Water Table 2 1 | | R | | INS | | ŊG | Stag | je 14 | | 1/1/38-AR | EA-M-S14-01 |
| Idealined blows No of blows Scala Penetrometer (Blows/100mm) Soil Description Water Table 2 0 0 0 0 0 1 1 1 2 0 0 0 0 0 1 1 1 2 0 0 0 0 0 1 1 1 2 0 0 0 0 0 1 1 1 3 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 <td< th=""><th></th><th></th><th></th><th>GIN</th><th>EER</th><th>2</th><th>Tested by</th><th></th><th>Date</th><th>Sheet No.</th><th>Test Site</th></td<> | | | | GIN | EER | 2 | Tested by | | Date | Sheet No. | Test Site |
| Marained ear (kPa) No of blows Scala Penetrometer (Blows/100mm) Soil Description Water Table 2 6 8 10 14 6 10 14 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>GetGeo</th> <th></th> <th>6/05/2021</th> <th>5</th> <th>379</th> | | | | | | | GetGeo | | 6/05/2021 | 5 | 379 |
| 2 Image: Content of | Jndrained hear (kPa) | No of blows /100mm | 0 | Scala (Blo 2 4 6 | Penetrome ws/100mm 8 10 12 | eter 1) 14 16 | : | Soil De | escription | | Water Table |
| 3 4 7 4 8 7 7 6 8 7 7 7 8 7 7 7 8 7 9 6 10 10 | | 2 2 4 5 5 2 3 2 2 3 2 2 3 5 4 4 | | | | Good Ground Result | FILL, re Engineered F mixed t loose to medium dense interbedded Sand some and Silt, minor sand, mi | | | | |
| EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract | | 5 4 7 4 8 7 | | | × · · · · · · · · · · · · · · · · · · · | | | EOB Targ | @ 2.0m et Depth | | |
| EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract ather leading up to test was fine and cool, no recent significant rain UTE = Unable To Extract | | | | | | | | | | | |
| ather leading up to test was fine and cool, no recent significant rain | | E | 0B = | = End Of | Borehole | UTI | P = Unable To Penetr | ate | UTE = Unab | le To Extract | |
| - | eather leadi | ng up to te | est wa | as fine ar | nd cool, no | recent s | significant rain | | | | |
| | oar Vano re | adinas ar | a con | wortod re | adinas as | nor calil | hration Cortificate (Va | lues au | ro undrainod sh | oar stronath) | |

Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)

Shear Vane records include Re-moulded values where possible

| | | | | Project Name | | Job Ref. | |
|---------------|--------------------------|--------------------------|---|---------------------------------------|------------------|---------------|----------------|
| | | D | CONSULTING | Greenhill, Subdivision Te Stage 14 | esting Area M, | 171738-ARE | EA-M-S14-01 |
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | | GetGeo | 6/05/2021 | 6 | 380a |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 2 | Good | FILL, resprea | d topsoil, grave | ls | |
| 200 | | 2 | Ground | | | | |
| 300 | | 3 | | - | | | |
| 400 | | 10 | | dense | | | |
| 500 | | 11 | | Engineered FILL, silt, s | and, minor angi | ualr gravels | |
| 600 | | 15 | | mixed browns | and greys, moi | st | |
| 700 | | 11 | | some angular gravels | | | |
| 800 | | 9 | | 4 | | | |
| 900 | | 7 | | 1 | | | |
| 1000 | | 6 | | 1 | | | |
| 1100 | | 5 | | - | | | |
| 1200 | | 4 | | - | | | |
| 1300 | | 5 | | | | | |
| 1400 | | 6 | | some topsoil | | | |
| 1500 | | 6 | | medium dense | | | |
| 1600 | | 5 | | - | | | |
| 1700 | | 4 | | - | | | |
| 1800 | | 4 | | | | | |
| 1900 | | 2 | | - | | | |
| 2000 | | 2 | | FOR | @ 2 0m | | - |
| 2100 | | | | EUB | @ 2.0M | | |
| 2200 | | | | - Targe | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | - | | | |
| 2000 | | | | - | | | |
| 2000 | | | | 1 | | | |
| 2100 | | | | - | | | |
| 2000 | | | | - | | | |
| 3000 | | | | 1 | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | 1 | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| Notes | | | | | | | |
| NOTES: | Weather leadi | E na un to ta | COB = END OF BORENOIE UI | e = Unable To Penetrate | UIE = Unabl | e to Extract | |
| 2 | Ground water | was not e | encountered during testing | againeant runn | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per cali | bration Certificate. (Values ar | e undrained sh | ear strength) | |
| 4 | Shear Vane re | ecords incl | lude Re-moulded values where p | ossible | | 5 / | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/202 | 1 | | | Rev2.8 |

(mm)

| - | | | | | | | Project Na | ame L Subdivisio | n Taating Araa M | Job Ref. | |
|-----------------|-----------------|--------|-----------|--------------|--------------------------|----------------|---------------|------------------------|--------------------------|------------------|-------------|
| | D | CC | DNS | SU | LTIN | ١G | Greennii | i, Subdivisio Stage | n Testing Area M ± 14 | 171738-AR | EA-M-S14-01 |
| | D | ΞN | GI | NE | ER | S | Tested by | ettage | Date | Sheet No. | Test Site |
| and the second | | | | | | | | GetGeo | 6/05/2021 | 7 | 380b |
| Undrained | No of | | Scal | a Per | netrome | ter | | | | | Water |
| Shear (kPa) | blows /100mm | 0 | (B 2 4 | lows 68 | / 100mm) 10 12 |) 14 16 | | So | oil Description | | Table |
| | 2 | | i | | | Result | | FILL, res | pread topsoil, grav | els | |
| | 2 | | | | | Cood | - | | 1 1 5 | | |
| | 6 | | | | (| Good Ground | dense | | | | |
| | 11 | | | | | | _ | | | | |
| | 11 | | | | | | Er | igineered FIL | L, silt, sand, angula | ar gravels | |
| | 14 | | | | | | Angular cr | mixed bro | owns and greys, mo | DIST | |
| | 14 | | | | | + + | Fill domina | ted by Silt | I | | |
| | 6 | | | H | | + | | iou of one | | | |
| | 4 | | 1 | | | | - | | | | |
| | 4 | | | | | | - | | | | |
| | 3 | | | | | | | | | | |
| | 8 | | | | | | - | | | | |
| | 5 | | | N | | | - | | | | |
| | 8 | | | \mathbf{A} | | | | | | | |
| | / | | | | $\rightarrow +$ | + | significant | angular graels | | | |
| | 10 9 | | | | | | some topso | hil | | | |
| | 6 | | | K | | | dense | | | | |
| | 14 | | | | | 1 + | | | | | |
| | 14 | | | | | | G | ravelly SANE |), dark orange-brow | n, moist | |
| | 15 | | | | | | | | | | |
| | 17 | | | | | | _ | | | | |
| | 8 | | | | | | | | | | |
| | 10 | | | | | + | - | | | | |
| | 0 | | | | + | + | - | | | | |
| | 9 6 | | | \mathbf{K} | | | - | | | | |
| | 7 | | | | | + | | | | | |
| | 6 | | | | | | - | | | | |
| | | | | | | | | | EOB @ 3.0m | | |
| | | | | | | | | | Target Depth | | |
| | | | | | | | | | | | |
| | | | | | | | - | | | | |
| | | | | | | | | | | | |
| | E | 0B = | End C |)f Bo | rehole | UTI | P = Unable | To Penetral | te UTE = Unat | le To Extract | |
| Weather leading | ng up to te | est wa | as fine | and o | cool, no r | ecent s | ignificant ra | ain | | | |
| Ground water | Was not e | ncoui | ntered | durin | g testing | nor cali | bration Cor | tificate Malu | as are undrained d | noar strongth) | |
| Shoar Vano ro | cords incl | udo [| | ildod | ings, as p values w | ver tall | ossihla | uncate. (Valu | es ale unuranneu Si | ieai siieiiyiii) | |

- Shear Vane records in de Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| - | _ | | | | _ | Project Name Greenhill Subdivision Testing Area M | | | | Job Ref. | | |
|--------------------------|--------------------------|-------------------------|--------------------|-----------------------------------|-------------|--|--------------------|------------------------------|---------------|----------------|--|--|
| | R | CON | ISU | LTIN | G | Stag | e 14 | Sung Area M, | 171738-AR | EA-M-S14-01 | | |
| | | ENG | INI | ERS | | Tested by | | Date | Sheet No. | Test Site | | |
| | | | | | | GetGeo | | 6/05/2021 | 8 | Lot 381a | | |
| Undrained Shear (kPa) | No of blows /100mm | 0 2 4 | ala Per (Blows) | netrometer /100mm) 10 12 14 | r 16 | S | oil De | scription | | Water Table | | |
| | 3 | | \ | Good G | Fround | FILL, re | spread | d topsoil, grave | ls | | | |
| | 6 | | <u>+</u> - | Result | | dense | | | | _ | | |
| | 4 | | | | | | | | | | | |
| | 7 | | | | | Engineered FILL, | silt, sa amv b | and, minor ang rown moist | ular gravels | | | |
| | 8 | | | | | 700-1000mm, silt, minor | sand, o | prange-brown | | | | |
| | 7 | | | | | | | | | | | |
| | 2 4 | | | | | 1000-1400mm Sand, silt | , minor | gravels, grey-br | own | | | |
| | 5 | | | | | | | | | | | |
| | 3 | | | | | loose | | | | | | |
| | 3 | | | | | some topsoil | | | | | | |
| | 4 | | | | | | | | | _ | | |
| | 2 | | | | | | | | | | | |
| | 3 | | | | _ | SILT, minor fi | ine sar oist to | nd, dark orange | e-brown | | | |
| | 1 | | | | | creamy grey-brown, orar | nge mot | ttling, very moist | | | | |
| | | | | | | | EOB | @ 2.0m | | | | |
| | | | | | | | Targe | el Depln | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | _ | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| eather leadi | E na up to te | :OB = En est was fir | d Of Bo | orehole cool with no | UTF sian | P = Unable To Penetra ificant recent rain (7 da | ate avs plu | UTE = Unab s) | le To Extract | | | |
| ound water | was not e | ncountere | ed durin | ig testing | - 90 | | J- p.u | - / | | | | |
| iear Vane re | eadings ar | e converte | ed read | ings, as pe | r calik | oration Certificate. (Val | ues ar | e undrained sh | ear strength) | | | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



(mm)

| - | | | | | Project Name | | Job | Ref. |
|--|---|--|--|-----------------|---|--|---------------|----------------|
| | D | CONS | ULTING | 3 | Greenhill, Subdivision Te Stage 14 | sting Area M, | 171738-ARI | EA-M-S14-01 |
| | DE | ENGI | NEERS | | Tested by | Date | Sheet No. | Test Site |
| | | | | | GetGeo | 6/05/2021 | 9 | Lot 381b |
| Undrained Shear (kPa) | No of blows /100mm | Scala (Bl | a Penetrometer ows/100mm) 6 8 10 12 14 | 16 | Soil De | escription | | Water Table |
| | 3 3 6 | | Good Grour Resul | l nd Its | FILL, respread to | psoil angular gra | avels | |
| | $ \begin{array}{c} 0 \\ 2 \\ 9 \\ 16 \\ 11 \\ 7 \\ 2 \\ 2 \\ 7 \\ 10 \\ 7 \\ 3 \\ 2 \\ 3 \\ 5 \\ 6 \\ 5 \\ 4 \\ \end{array} $ | | | | Engineered FILL, sa browns/g some topsoil, gravels dense 700-1100mm Silt, sand, few gra firm hard grey-brown Sands, some silt loose to medium-dense minor topsoil | nd, silt, angular greys, moist avels | gravels | |
| | 4 4 4 3 12 7 6 6 6 4 | | | | dense Gravelly SAND, silt, da minor silt very moist EOB Targe | ark greys / brow @ 3.0m et Depth | ns, moist | - |
| | E | OB = End C |)f Borehole | UTP | = Unable To Penetrate | UTE = Unabl | e To Extract | |
| Weather leadi Ground water Shear Vane re | ng up to te was not e eadings are | est was fine a ncountered of e converted | and cool with no s during testing readings, as per c | signii calib | ficant recent rain (7 days plu ration Certificate. (Values ar | is) e undrained she | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job I 171738-ARE | Ref. A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|---------------------|--------------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| <u>/</u> | and the second | 1 | | GetGeo | 6/05/2021 | 10 | Lot 382a |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 4 | Good | FILL, resprea | d topsoil, gravel | S | |
| 200 | | 3 | Result | | | | |
| 300 | | 4 | | - | | | |
| 400 | | 11 | | Engineered FILL, silt, | sand, interbedd | ed gravels | |
| 500 | | 6 | | creamy brown ar | nd grey-brown, r | noist | |
| 600 | | 12 | | dense to very dense | | | |
| 700 | | 13 | | | | | |
| 800 | | 9 | | orange-brown and grey-brown | | | |
| 900 | | 6 | | | | | |
| 1000 | | 13 | | - | | | |
| 1100 | | 9 | | dense | | | |
| 1200 | | 6 | | | | | |
| 1300 | | 7 | | | | | |
| 1400 | | 8 | | | | | |
| 1500 | | 10 | | minor orange-mottling | | | |
| 1600 | | 12 | | some gravels | | | |
| 1700 | | 10 | | minor silt | | | |
| 1800 | | 7 | | some gravels | | | |
| 1900 | | 12 | | | | | |
| 2000 | | 9 | | - | | | |
| 2100 | | 6 | | | | | |
| 2200 | | 10 | | | | | |
| 2300 | | 8 | | SILT, some sand, da | ark orange-brow | n, moist | |
| 2400 | | 7 | | | | | |
| 2500 | | 7 | | | | | |
| 2600 | | 9 | |] | | | |
| 2700 | | 12 | ┝┼╌╡┇┼╶┼╴┥╸┫╴┥╴ | Gravelly SAN | ID, yellow-brow | n | |
| 2800 | | 12 | | heavy orange | e-mottling, mois | t | |
| 2900 | | 16 | | some pumiceous materials | | | |
| 3000 | | UTP | | | | | |
| 3100 | | | | EOB | @ 3.0m | | |
| 3200 | | | | Targ | et Depth | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | | | | |
| Notes: | | E | OB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| 1 | Weather leadi | ng up to te | est was fine and cool with no sigr | ificant recent rain (7 days plu | ls) | | |
| 2 | Ground water | was not e | ncountered during testing | | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per cali | bration Certificate. (Values ar | e undrained she | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |

| | | | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job F 171738-ARE | Ref. A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|---------------------|--------------------|
| | | B | INGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | - | ENGINEERS | GetGeo | 6/05/2021 | 11 | Lot 382b |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 2 | Result | FILL, resprea | id topsoil gravel | S | |
| 200 | | 2 | Good | | | | |
| 300 | | 6 | Ground | dense | | | |
| 400 | | 10 | | | | | |
| 500 | | 16 | | Engineer FILL, silt, sa | nd, some angul | ar gravels | |
| 600 | | 18 | | mixed brown | and greys, mois | st | |
| 700 | | 5 | | | | | |
| 800 | | 6 | | Fill dominated by Silt, orange-b | rown | | |
| 900 | | 5 | | - | | | |
| 1000 | | 5 | | | | | |
| 1100 | | 4 | | | | | |
| 1200 | | 8 | | gravels, minor topsoil | | | |
| 1300 | | 15 | | | | | |
| 1400 | | 12 | | | | | |
| 1500 | | 4 | | stiff | | | |
| 1600 | | 2 | | SILT, minor sa | and, yellow-brov | vn | |
| 1700 | | 2 | | heavy orange | e mottling, mois | it | |
| 1800 | | 1 | | | | | |
| 1900 | | 4 | | Gravelly SAIND, some | slit, orange-bro | own, moist | |
| 2000 | | 8 | | | @ 2.0m | | |
| 2100 | | | | EUB | @ 2.011 | | |
| 2200 | | | | Targe | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | | | | |
| 2500 | | | | - | | | |
| 2000 | | | | - | | | |
| 2800 | | | | - | | | |
| 2000 | | | | | | | |
| 3000 | | | | | | | |
| 3100 | | | | | | | |
| 3200 | | | | 1 | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| Notes | | F | OB - End Of Borebole | P - Ilnahle To Penetrate | IITE – Ilnahl | e To Extract | |
| 1 | Weather leading | ם ng un to te | est was fine and cool with no sign | ificant recent rain (7 days plu | us) | | |
| 2 | Ground water | was not e | ncountered during testing | | , | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per calil | bration Certificate. (Values ar | e undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | 5 / | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |



| Greenhill, Subdivision Testing Area M. 171738-AREA-M-S14-01 Stage 14 171738-AREA-M-S14-01 Stage 14 Stage 14 171738-AREA-M-S14-01 Stage 14 | | | | | Project Nar | ne | | Job Ref. | | |
|--|-------------------------------|---|---------------------------------|---|--|---|---|------------------------------------|----------------|--|
| Ested by Date Sheet No. Test Site GetGeo d/05/2021 12 Lot 383 Undrained Shear (kPa) Scala Penetrometer (Blows/100mm) Soil Description Water Table UTP Soil Description Water Table UTP Result Result FILL, respread lopsoil gravels Area heavity trafficked, lots of gravels evident UTP Medium dense some topsoil Engineer FILL, silt, sand, angular gravels browns and greys, moist 5 Medium dense Silty SAND, yellow-brown, minor orange motiling modium dense Silty SAND, yellow-brown, minor orange motiling modium dense 7 Medium dense Silty SAND, dark-grey, moist 3 Medium dense Gravelly SAND, dark-grey, moist 3 Medium dense Gravelly SAND, dark-grey, moist 9 Dist EOB @ 2.0m 7 Medium dense Target Depth EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract Vactor Rest on the countered during testing Dist on the significant recent rain (7 days plus). Xea mentione during testing | | R | CONS | ULTING | Greenhill, | Subdivision Te Stage 14 | esting Area M, | 171738-AR | EA-M-S14-01 | |
| GetGeo 6/05/2021 12 Lot 383 Undrained Near (kP) No of blows No Scala Penetrometer (Blows/100mm) Soil Description Water Table UTP 0 2 4 6 8 10 14 6 UTP 0 2 4 6 8 10 14 6 7 UTP 0 0 2 4 6 8 10 14 6 UTP 0 0 0 0 0 0 0 0 UTP 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 10 0 0 0 | | D | ENGIN | IEERS | Tested by | | Date | Sheet No. | Test Site | |
| Undrained Shear (kPa) No of blows Scala Penetrometer (Blows/T00mm) Soil Description Water Table UTP UTP Count Result FILL, respread topsoil gravels Area heavily trafficked, lots of gravels evident FILL, respread topsoil gravels Area heavily trafficked, lots of gravels evident UTP Image: Count Result medium dense some topsoil Soil Description Water Table Image: Count Result Image: Count Result medium dense some topsoil Soil Description Water Table Image: Count Result Image: Count Result Image: Count Result medium dense some topsoil Soil Description Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result Image: Count Result | | | | | G | etGeo | 6/05/2021 | 12 | Lot 383 | |
| UTP Good Result UTP Good Result UTP Good Result UTP Good Result A Good Result B Good Result Company Gravelly SAND, dark-grey, moist becoming minor puniceous materials B Good Result T Good Result | Undrained Shear (kPa) | No of blows /100mm | Scala (Blo 0 2 4 6 | Penetrometer ws/100mm) 8 10 12 14 1 | 6 | Soil De | escription | | Water Table | |
| EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract Veather leading up to test was fine and cool with no significant recent rain (7 days plus) Sround water was not encountered during testing Weather leading up to test was fine and cool with no significant recent rain (7 days plus) Sround water was not encountered during testing Weather leading up to test was fine and cool with no significant recent rain (7 days plus) Sround water was not encountered during testing Weather leading are converted readings as nor calibration Cartificate. (Values are undrained shear strength) | | UTP UTP 7 4 5 5 4 5 7 7 7 3 3 3 3 5 7 7 7 11 | | Good Ground Result | d t Area heavily medium dens some topsoil medium-dens some topsoil medium-dens Silty S loose to dens becoming mi becoming mi | FILL, resprea trafficked, lots of g se gineer FILL, silt, browns and se AND, yellow-bro n se Gravelly SANE nor pumiceous ma EOB Targe | d topsoil gravel gravels evident sand, angular g d greys, moist wn, minor orang noist), dark-grey, mo terials @ 2.0m et Depth | s gravels ge mottling ist | | |
| pround water was not encountered during testing Thear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength) | Weather leadi | E ng up to te | COB = End Of est was fine an | Borehole L hd cool with no si | JTP = Unable | Γο Penetrate t rain (7 days plu | UTE = Unabl JS) | e To Extract | | |
| AIGAE VALIS LEAMIND ALS GUIVEITEA LEAMIND, AJ DELEMINAUUL SEUMEALE, LYAIDEN ALE MUULAMED NIERENDERENDER | Ground water Shear Vane re | was not e eadings ar | encountered du | uring testing eadings, as per c | alibration Certif | icate. (Values ar | e undrained sh | ear strength) | | |

Shear Vane records include Re-moulded values where possible



(mm)

| - | | | | Project Name Greenhill, Subdivision Te | esting Area M, | Job Ref. | | |
|--|--|---|--------------------------|---|------------------------------------|---------------|----------------|--|
| | R | CONSULTIN | IG | Stage 14 | | 1/1/38-ARI | A-M-S14-01 | |
| | | ENGINEER | 2 | lested by | Date | Sheet No. | Test Site | |
| | - | | | GetGeo | 6/05/2021 | 13 | Lot 384 | |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetromet (Blows/100mm) 0 2 4 6 8 10 12 | ter) 14 16 | Soil De | escription | | Water Table | |
| | 4 4 7 | | Good Ground Result | FILL, resprea | d topsoil, grave | S | | |
| | 6 | | | medium dense | | | | |
| | 7 8 <u>UTP</u> | | | some topsoil Engineered FILL, sand, mix brown a | silt, some angu and grey, moist | ular gravels | | |
| | | | | 500-1400mm Sand dominates, | minor topsoil/gra | vels | | |
| | 6 6 | | | dense | | | | |
| | 10 7 | | | dense to verv dense | | | - | |
| | 7 | | | SAND, grav | vels, minor silt | | | |
| | 16 UTP | | | dark orange | e-brown, moist | | | |
| | | | | FOB | @ 2.0m | | - | |
| | | | | Targe | et Depth | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | |] | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | D - Unahla To Donatrato | IITE – Unabl | a To Extract | | |
| Weather leadi Ground water Shear Vane re | ng up to te was not e eadings ar | est was fine and cool with encountered during testing re converted readings, as p | no sign | ificant recent rain (7 days plu | e undrained sh | ear strength) | | |

Shear Vane records include Re-moulded values where possible



| - | _ | | | | | Project Name Greenhill, Subdivision Te | | | |
|--------------------------|---|-------------|---------------|--|---------|--|--|----------------|----------------|
| n | R | CON | Şί | JLTINC | 3 | Stage 14 | | 171738-AR | EA-M-S14-01 |
| | | ING | N | FER2 | | Tested by | Date | Sheet No. | Test Site |
| | | | | | | GetGeo | 6/05/2021 | 14 | Lot 385 |
| Undrained Shear (kPa) | No of blows /100mm | Sca (E | lla P Blow | enetrometer vs/100mm) 8 10 12 14 1 | 16 | Soil De | escription | | Water Table |
| | 2 3 6 4 3 4 5 6 8 UTP 7 12 | | | Resul | | FILL, respread dense Engineered FILL, s minor topsoil 400-700mm Sand dominates interbedded angular gravel 1100-1600mm silt, dominates, d | d topsoil, grave ilt, sand, brown prange brown | ls 1, moist | |
| | 12 10 UTP | | | | | very dense SAND, gravels, some pumiceous materials dark grey EOB Targe | dark brown, m @ 2.0m et Depth | oist | - |
| | | | | | | | | | |
| | E | OR - End | Of F | Rorehole I | ITC | 0 - Unable To Depotrate | IITE - Upabl | a To Extract | |
| Neather leadin | E In up to te | od = Ella | | cool with no s | iani | ificant recent rain (7 days nlu | | E TO EXITACI | |
| Ground water v | was not ei | ncountered | l dur | ing testing | ''A' II | | | | |
| Shear Vane rea | adings are | e converted | d rea | dings, as per c | alib | pration Certificate. (Values ar | e undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| - | _ | | Project Name Greenhill Subdivision Te | sting Area M | Job F | Ref. |
|--------------------------|--------------------------|---|--|-------------------|---------------|----------------|
| | R | CONSULTING | Stage 14 | Stilly Alea M, | 171738-ARE | A-M-S14-01 |
| | | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | GetGeo | 6/05/2021 | 15 | Lot 386a |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| | 2 | Good Ground | FILL, respread | d topsoil, gravel | S | |
| | 2 | Result | | | | |
| | 7 | | dense Engineered EILL sand | silt_creamy_br | own moist | |
| | 4 | | 500-700mm sand, silt, angular | gravels, orange-b | rown | |
| | 3 | | 700-1400mm silt, sand, minor o | iravels | | |
| | 5 | | | | | |
| | 4 | | firm | | | |
| | 3 | | | | | |
| | 4 | | some gravels, minor topsoil | | | |
| | 15 | | very dense | | | |
| | 12 11 | | | | | |
| | 11 | | | | | |
| | 12 UTP | | sand, angular gravels, minor sil | t | | |
| | | | | | | |
| | UIP | | | | | |
| | 8 | | dense | | line maint | |
| | 9 7 | | SAND, Siit, yeilow-brov | vn, orange mou | ling, moist | |
| | 4 Г | | minor silt | | | |
| | 5 6 | | some gravels, brown | | | |
| | 6 | | EOP | @ 2 0m | | |
| | | | Targe | et Depth | | |
| | | | | | | |
| | | | | | | |
| | E | OB = End Of Borehole UTF | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| Weather leadi | ng up to te | est was fine and cool. No recent (| 10 days) rain. | | | |
| Shear Vane re | eadings ar | e converted readings, as per calib | pration Certificate. (Values ar | e undrained she | ear strength) | |

Durle of M

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



(mm)

| - | - | 101 | | 10 | Project Name Job Re Greenhill, Subdivision Testing Area M, 171728 ADE A | | | | | o Ref. | |
|---------------|-----------------|------------|----------|-------------|--|----------------------|--------------------|-----------------|-------------------|---------------|-------------|
| | R | IOL | ISI | | YG | | Stage | 14 | J | 1/1/38-AR | EA-M-S14-01 |
| | | ENG | IIIA | EER | 2 | Tested | by | | Date | Sheet No. | Test Site |
| | | | | | | | GetGeo | | 6/05/2021 | 16 | Lot 386b |
| Undrained | No of | S | cala F | Penetrom | eter | | | | | | Water |
| Shear (kPa) | blows /100mm | 0 2 | 4 6 | 8 10 12 | 1 4 16 | | 501 | II De: | scription | | Table |
| | 1 | | | | Good | | | | | | |
| | 1 | | | | Ground Results | - | FILL, resp | oread | l topsoil, grave | ls | |
| | 3 | | | | | - | | | | | |
| | 12 | | | | | dense | | | | | |
| | 4 | | | | | | | | | | |
| | 3 | | | | | - | Engineered FILL | ., sar | nd, silt, angular | r gravels | |
| | 4 | | | | | - | brown to orar | ieu ii ige-b | prown to grey, i | s moist | |
| | 12 | | <u>_</u> | | | | | 0 | 0 9 | | |
| | 14 | | | | | - | | | | | |
| | 8 | | | | | - | | | | | |
| | 11 | | | | | | | | | | |
| | 14 | | | | | | | | | | |
| | 15 | | | | | angular (becomin | gravels to 2.0m | | | | |
| | 17 | | | | | becomm | g very dense | | | | |
| | | | | | | | | | | | |
| | | | | | | | F | | @ 1 0m | | _ |
| | | | | | | - | T | arge | et Depth | | |
| | | | | | | | | 5 | | | |
| | | | | | | - | | | | | |
| | | | | | | - | | | | | |
| | | | | | | - | | | | | |
| | | | | | | | | | | | |
| | | | | | | - | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | - | | | | | |
| | | | | | | - | | | | | |
| | F | OB – En | nd Of | Borehole | |) - Unat | le To Penetrate | د | LITE – Linabi | e To Extract | |
| Weather leadi | ng up to te | est was fi | ine an | d cool. No | recent (| 10 days) | rain. | • | | | |
| Ground water | was not e | ncounter | ed du | ring testin | g | | | | | | |
| Shear Vane re | eadings are | e conver | ted rea | adings, as | per calil | oration C | ertificate. (Value | es are | e undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | Job Ref. 171738-AREA-M-S14-01 | | |
|---------------|--------------------------|--------------------------|---|---|----------------------------------|---------------|----------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | Art. F | | | GetGeo | 6/05/2021 | 17 | Lot 387a |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 200 | | 3 | Good ground Result | FILL, resprea | d topsoil, gravel | S | |
| 400 | | 4 | | | | | |
| 500 | | 4 | | | | | |
| 600 | | 5 | | Engineered FILL, sil | t, sand, angular | gravels | |
| 700 | | 5 | | interbedded ir | n changing ratio | 'S | |
| 800 | | 18 | | brown, orange- | brown, grey, mo | pist | |
| 900 | | UTP | | very dense | | | |
| 1000 | | | | | | | |
| 1100 | | 2 | | | | | |
| 1200 | | 3 | | | | | |
| 1/00 | | 0 10 | | | | | |
| 1400 | | 9 | | | | | |
| 1600 | | 4 | | | | | |
| 1700 | | 10 | | | | | |
| 1800 | | 11 | | some topsoil, some angular gra | avels | | |
| 1900 | | 4 | | | | | |
| 2000 | | 2 | | fill dominated by Silt, firm to stil | ff | | |
| 2100 | | 2 | | | | | |
| 2200 | | 4 | | | | | |
| 2300 | | 7 | | | | | |
| 2400 | | 8 | | difficult to determine transition f | from Fill to natura | Iground | |
| 2500 | | 1Z 11 | | SAND aroual | ark arev mo | ict | |
| 2000 | | 12 | | dense | s, uain yi∉y, 1110 | IJ | |
| 2800 | | 7 | | | | | |
| 2900 | | 3 | | | | | |
| 3000 | | 4 | | | | | |
| 3100 | | | | EOB | @3.0m | | |
| 3200 | | | | Targe | et Depth | | |
| 3300 | | | | | | | |
| 3400 | | | | | | | |
| 3500 | | | | | | | |
| Notes: | Weather leadin | E ng up to te | OB = End Of Borehole UTF est was fine and cool. No recent (| P = Unable To Penetrate 10 days) rain. | UTE = Unabl | e To Extract | |
| 2 | Shear Vane re | was not e vadings ar | ncountered during testing a converted readings, as per calib | oration Certificate Malues ar | re undrained ch | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where n | ossible | | su su criguri | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARE | Ref. A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|---------------------|--------------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| 1 | A States | 1000 | | GetGeo | 6/05/2021 | 18 | Lot 387b |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 1 | Result | | | | |
| 200 | | 2 | Good | FILL, resprea | d topsoil, gravel | s | |
| 300 | | 4 | Ground | | | | |
| 400 | | 7 | | dense | | | |
| 500 | | 5 | | | | | |
| 600 | | 5 | | Engineered FILL, sa | nd, silt, angular | gravels | |
| 700 | | 11 | | mixed brow | vns and greys | | |
| 800 | | 7 | | | | | |
| 900 | | 16 | | Silt dominates upper profile | | | |
| 1000 | | 14 | | Sands dominate lower profile | | | |
| 1100 | | 13 | | Angular gravels at varying dens | sities with depth | | |
| 1200 | | 8 | | | | | |
| 1300 | | 15 | | | | | |
| 1400 | | 8 | | | | | |
| 1500 | | 8 | | | | | |
| 1600 | | 4 | | | | | |
| 1700 | | 8 | | | | | |
| 1800 | | 10 | | significant angular gravels | | | |
| 1900 | | UTP | | | | | |
| 2000 | | | | | | | |
| 2100 | | | | EOB | @ 2.0m | | |
| 2200 | | | | Targe | et Depth | | |
| 2300 | | | | | | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 2600 | | | | | | | |
| 2700 | | | | | | | |
| 2800 | | | | | | | |
| 2900 | | | | | | | |
| 2100 | | | | - | | | |
| 3100 | | | | | | | |
| 3200 | | | | | | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 3000 | | | | I | | | |
| Notes: 1 | Weather leadi | E ng up to te | OB = End Of Borehole UTI est was fine and cool. No recent (| P = Unable To Penetrate 10 days) rain. | UTE = Unabl | e To Extract | |
| 2 | Ground water | was not e | ncountered during testing | ÷ · | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per calil | pration Certificate. (Values ar | e undrained she | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |



(mm)

| | | | | | | IG | Greenhill, Subdivision Testing Area M, Store 14 | | | EA-M-S14-01 | | | |
|-------------------------------|--|---------------------|----------------------------|--------------------------|----------------------------|------------------------------|--|---|---|--|--|--------------|-----------|
| | B | EN | ÍG | IN | EF | RS | | Tested h | אר | Stage 14 | Date | Sheet No | Test Site |
| | | 30 | | 10.1 | | | | | GetGeo | 0 | 6/05/2021 | 19 | Lot 388 |
| Undrained Shear (kPa) | No of blows /100mm | 0 | S C 2 4 | ala F (Blov | Penetr ws/100 | Comete Omm) | e r 4 16 | | Soil Description | | | | |
| | 2 2 3 | | | | | Gr | Good round Result | | FIL | L, respread | d topsoil, grave | ls | |
| | 4 6 11 12 15 13 15 11 17 20 | | | | | | | dense E Silt domir Sands do Angular g significan some pur | Engineere nates uppe ominate low gravels at v it angular g necious m | ed FILL, sai mixed brow er profile wer profile varying dens gravels | nd, silt, angular /ns and greys ities with depth | gravels | |
| | | | | | | | | | | | | | |
| Weather leadi Ground water | E ng up to te was not e | OB est w ncou | = End vas fir untere | d Of I ne an ed du | Boreh d cool ring te | nole I. No re esting | UTI ecent (| P = Unab 10 days) | le To Per rain. | netrate | UTE = Unabl | e To Extract | |

Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)

Shear Vane records include Re-moulded values where possible

| | | | CONSL | ILTING | Project Name Greenhill, Subdivision To Stage 14 | esting Area M, | Job Ref. 171738-AR | EA-M-S14-01 |
|-----------------------|---|--|---|---|--|--------------------------------------|-----------------------|----------------|
| 1 | | D | INGIN | FERS | Tested by | Date | Sheet No. | Test Site |
| <u>.</u> | | _ | | | GetGeo | 6/05/2021 | 20 | Lot 389a |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Pe (Blow | enetrometer s/100mm) 8 10 12 14 16 | Soil D | escription | | Water Table |
| 100 200 300 | | 2 3 2 | | Good Ground Result | FILL, resprea | id topsoil, grave | ls | |
| 400 500 600 | | 10 11 UTP | | | very dense Engineered FILL, sand mixed b | , silt, some angi prown, moist | ular gravels | |
| 700 800 900 | | UTP | | | - | | | |
| 1100 1200 1300 | | 12 | | | Silty SAND, ye some fine pumiceous material, very dense | ellow-brown, mo minor fine gravel | ist s | _ |
| 1400 1500 1600 | | UTP | | | Gravelly SAND, so minor sil | me pumiceous r t, grey, moist | material | |
| 1700 1800 1900 | | | | | - | | | |
| 2000 2100 2200 | | | | | EOB Targ | @ 2.0m et Depth | | |
| 2300 2400 2500 | | | | | - | | | |
| 2600 2700 2800 | | | | | - | | | |
| 2900 3000 3100 | | | | | - | | | |
| 3200 3300 3400 | | | | | - | | | |
| 3500 | | | | | | | | |
| Notes: 1 2 3 | Weather leadin Ground water Shear Vane re | E ng up to te was not e eadings are | OB = End Of B est was fine and ncountered duri e converted rea | orehole UT cool. No recent (ng testing dings, as per cali | P = Unable To Penetrate (10 days) rain. bration Certificate. (Values a | UTE = Unabl | e To Extract | |
| 4 | Shear Vane re Shear Vane S | ecords incl erial No.: | ude Re-moulde 2086 Ex | d values where p p. Date: 2/06/2021 | ossible 1 | | | Rev2.8 |

| | | | CONSULTING | Project Name Greenhill, Subdivision Te | esting Area M, | Job Ref. 171738-ARE | A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|---------------------|------------------------|------------|
| | | B | INGINEERS | Stage 14 | Date | Shoot No | Tost Sito |
| <u>×</u> | | | | GetGeo | 6/05/2021 | 21 | Lot 389b |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | Water Table | | |
| 100 | | 2 | Result | - | | | |
| 200 | | 2 | Good | FILL, resprea | d topsoil, grave | ls | |
| 300 | | 6 | Ground | | | | |
| 400 | | 5 | | dense | | | |
| 500 600 | | 0 5 | | Engineered FILL sa | and silt angular | aravels | |
| 700 | | 9 | | | ortions with depth | graveis | |
| 800 | | 11 | | mixed browns | and grevs, moi | ist | |
| 900 | | UTP | | angular gravels significant | g j = , | | |
| 1000 | | | | | | | |
| 1100 | | | | | | | |
| 1200 | | 12 | |] | | | |
| 1300 | | 13 | | | | | |
| 1400 | | 10 | | | | | |
| 1500 | | 11 | | | | | |
| 1600 | | 12 | | - | | | |
| 1700 | | 14 | | | | | |
| 1800 | | 10 | | | | | |
| 2000 | | 10 | | difficult to identify level of trans | ition to natural ar | ound | |
| 2000 | | 7 | | | nion to natural yr | Junu | |
| 2200 | | 5 | | dense | | | |
| 2300 | | 7 | | | | | |
| 2400 | | 14 | | Gravelly SAND, sor | ne pumiceous r | material | |
| 2500 | | 7 | | grey | , moist | | |
| 2600 | | UTP | | orange-brown | | | |
| 2700 | | | |] | | | |
| 2800 | | | | | | | |
| 2900 | | | | | | | |
| 3000 | | | | becoming wet | | | |
| 3100 | | | | EOB | @ 3.0m | | |
| 3200 | | | | larg | et Depth | | |
| 3300 | | | | - | | | |
| 3400 | | | | | | | |
| 3300 | | | | | | | |
| Notes: | Monthorlood | E | UB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
|) 2 | Ground water | was not a | ssi was nne anu cuui. Nu recent (ncountered during testing | in nays) idili. | | | |
| 2 | Shear Vane re | adinas ar | e converted readings, as per cali | bration Certificate. (Values a | e undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |

| Depth (mm) No of blows (100mm) Scala Penetrometer (Blows/100mm) Soil Description 0 2 4 6 8 10 12 14 16 | Test Site Lot 390a Water Table |
|--|---|
| Depth (mm) Undrained Shear (kPa) No of blows (I00mm) Scala Penetrometer (Blows/100mm) Soil Description | Lot 390a Water Table |
| Depth (mm)Undrained Shear (kPa)No of blowsScala Penetrometer (Blows/100mm)Soil Description0246810121416 | Water Table |
| | |
| 100 1 Good Ground | |
| 200 2 FILL, respread topsoil, gravels | |
| 300 7 Result | |
| 400 UTP dense | |
| 500 | |
| 600 6 Engineered FILL, silt, sand, angular gravels | |
| 700 16 greys and browns, moist | |
| 800 UTP | |
| | |
| | |
| Silt dominates, hard, orange-brown | |
| | |
| | |
| | _ |
| | |
| 1700 3 Silty SAND orange-brown moist | |
| 1800 6 some gravels, hard | |
| 1900 7 | |
| 2000 11 1 | |
| 2100 EOB @ 2.0m | |
| 2200 Target Depth | |
| 2300 | |
| 2400 | |
| 2500 | |
| 2600 | |
| 2700 | |
| 2800 | |
| 2900 | |
| | |
| | |
| | |
| 3300 | |
| | |
| | |
| Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extrac | t |
| Weather leading up to test was tine and cool. No recent (10 days) rain. Cround upter upper patronountered during testing. | |
| Ground water was not encountered during testing Shear Vane readings are converted readings, as nor calibration Cortificate. Malues are undrained cheer strength |) |
| 4 Shear Vane records include Re-moulded values where nossible |) |
| 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021 | Rev2.8 |



(mm)

| - | - | | Project Name Greenhill, Subdivision Te | esting Area M, | Job Ref. | |
|--|---|--|---|-----------------------------------|-------------------------------|----------------|
| | B | | Stage 14 | | 1/1/38-ARE | A-IVI-S14-01 |
| | | INGINEERS | lested by | Date | Sheet No. | Test Site |
| | | | GetGeo | 6/05/2021 | 23 | Lot 390b |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| | 2 2 3 | Good Ground Results | FILL, respread | d topsoil, gravel | S | |
| | 5 7 7 7 5 8 | | Engineered FILL, sili | t, sand, angular browns, moist | gravels | |
| | 3 14 13 11 15 8 6 5 4 | | alternating domininance of Silt a Angular gravels at intermittant o | and Sand depths | | |
| | 6 5 8 11 4 5 | | minor topsoil, gravels | | | |
| | 3 4 5 4 4 3 2 | | medium-dense Silty SAND, ora minor silt, dark orange-brown | ange-brown, mc | vist | |
| | | | EOB Targe | @ 3.0m et Depth | | |
| Weather leadi Ground water Shear Vane re | E ng up to te was not e eadings are | OB = End Of Borehole UTI est was fine and cool. No recent of ncountered during testing e converted readings, as per cali | P = Unable To Penetrate (10 days) rain. bration Certificate. (Values ar | UTE = Unable | e To Extract ear strength) | |

Durle of M

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

| | | | CONS | ULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARE | Ref. :A-M-S14-01 |
|---------------|--------------------------|--------------------------|-----------------------------|--|---|------------------|-------------------|----------------------------|
| | | D | ENGIN | EERS | Tested by | Date | Sheet No. | Test Site |
| <u>.</u> | | _ | | | GetGeo | 6/05/2021 | 24 | Lot 391 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala F (Blov 0 2 4 6 | Penetrometer vs/100mm) 8 10 12 14 16 | Soil De | Water Table | | |
| 100 | | 2 | | Good | FILL, resprea | d topsoil, grave | ls | |
| 200 | | 2 | | Result | | | | |
| 300 | | 6 | | | dense | | | |
| 400 | | 9 | | | | | | |
| 500 | | 11 | | | Engineered FILL, sil | t, sand, angular | gravels | |
| 600 | | 6 | | | greys and | browns, moist' | | |
| 700 | | 6 | | | _ | | | |
| 800 | | 4 | | | _ | | | |
| 900 | | 5 | | | _ | | | |
| 1000 | | 6 | | | | | | |
| 1100 | | 7 | | | | | | |
| 1200 | | UTP | | | layering of angular gravels | | | |
| 1300 | | 6 | | | silt dominates, orange-brown, s | stiff | | |
| 1400 | | 4 | | | | | | |
| 1500 | | 4 | | | - | | | |
| 1600 | | 3 | | | - | | | |
| 1700 | | 6 | | | dense | | | |
| 1800 | | 9 | | | Silty SAND, or | ange-brown, mo | pist | |
| 1900 | | 11 | | | minor silt, dark orange-brown | | | |
| 2000 | | | | | | | | |
| 2100 | | | | | EOB | @ 2.0m | | |
| 2200 | | | | | Targ | et Depth | | |
| 2300 | | | | | | | | |
| 2400 | | | | | | | | |
| 2500 | | | | | | | | |
| 2600 | | | | | | | | |
| 2700 | | | | | - | | | |
| 2800 | | | | | - | | | |
| 2900 | | | | | - | | | |
| 3000 | | | | | 1 | | | |
| 3100 | | | | | 1 | | | |
| 3200 | | | | | 1 | | | |
| 3300 | | | | | 1 | | | |
| 3400 | | | | | 1 | | | |
| 3500 | | | | | | | | |
| Notes | | 6 | OB - End Of | Borehole IIT | P - I Inable To Penetrate | IITE – Unabl | e To Extract | |
| 1 | Weather leading | na un to ta | ost was find an | d cool. No recent | (10 days) rain | | | |
| 2 | Ground water | was not e | encountered du | rina testina | | | | |
| 3 | Shear Vane re | adinas ar | e converted re | adings, as per cali | bration Certificate. (Values ar | re undrained sh | ear strenath) | |
| 4 | Shear Vane re | cords incl | lude Re-mould | ed values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 E | xp. Date: 2/06/202 | 1 | | | Rev2.8 |

| DBENGINEERS Stage 14 Date Sheet No. Tested by GetGeo 6/05/2021 25 | Test Site |
|--|----------------|
| GetGeo 6/05/2021 25 | I ESI JILE |
| | Lot 392 |
| Depth (mm)Undrained Shear (kPa)No of blowsScala Penetrometer (Blows/100mm)Soil Description0246810121416 | Water Table |
| 100 1 Result FILL, respread topsoil, gravels | |
| 200 2 Good | |
| 300 6 Ground | |
| 400 17 dense | |
| 500 18 Engineered FILL, silt, some sand | |
| 600 12 some angular gravels, brown, moist | |
| 700 8 | |
| 800 9 some gravels | |
| 900 UTP | |
| 1000 | |
| | |
| 1200 11 significant angular gravels, some topsoil, augering difficult | |
| 1300 UTP very dense | |
| 1400 | |
| | |
| 1600 5 medium dance | |
| 1700 4 interum-dense | |
| | |
| | |
| 2000 FOB @ 2.0m | |
| 2200 Target Depth | |
| 2300 | |
| 2400 | |
| 2500 | |
| 2600 | |
| 2700 | |
| 2800 | |
| 2900 | |
| 3000 | |
| 3100 | |
| 3200 | |
| 3300 | |
| 3400 | |
| | |
| Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract | |
| 1 Weather leading up to test was fine and cool. No recent (10 days) rain. | |
| 2 Ground water was not encountered during testing | |
| 2 Charles have been been been been been been been be | |
| Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength) Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength) | |

| | | | CONSULTING | Project Name Greenhill, Subdivision Te | esting Area M, | Job Ref. 171738-AR | EA-M-S14-01 |
|---------------|--------------------------|--------------------------|--|---|--------------------|-----------------------|----------------|
| | | B | ENGINEERS | Stage 14 | Date | Shoot No | Tost Sito |
| 1 | | | ENGINEERIS | | | 311661 NO. 24 | |
| | | | | GelGeo | 6/05/2021 | 20 | LOI 393 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 1 | Good | - | | | |
| 200 | | 1 | Result | FILL, resprea | d topsoil, grave | ls | |
| 300 | | 6 | | | | | |
| 400 | | 12 | | dense | | | |
| 500 | | 10 | | | | | |
| 600 | | UIP | | Engineered FILL, sa | ind, silt, angular | graveis | |
| 700 | | | | mixed greys a | ina drowns, moi | Sl | |
| 008 | | | | - | | | |
| 900 | | Б | | | | | |
| 1100 | | 0 10 | | - | | | |
| 1200 | | 6 | | - | | | |
| 1300 | | 4 | | Silt dominates, orange-brown | | | |
| 1400 | | 5 | | very stiff | | | |
| 1500 | | 7 | | | | | |
| 1600 | | 4 | | - | | | |
| 1700 | | 2 | | | | | |
| 1800 | | 3 | | | | | |
| 1900 | | 4 | | | | | |
| 2000 | | 4 | | | | | |
| 2100 | | | | EOB | @ 2.0m | | |
| 2200 | | | | Targ | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | - | | | |
| 2500 | | | | _ | | | |
| 2600 | | | | - | | | |
| 2700 | | | | - | | | |
| 2000 | | | | 1 | | | |
| 2900 | | | | - | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | - | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | - | | | |
| 3500 | | | | 1 | | | |
| Notes: | | F | OB = End Of Borehole | P = Unable To Penetrate | UTF = Unabl | e To Extract | |
| 1 | Weather leading | ng up to te | est was fine and cool. No recent | (10 days) rain. | | | |
| 2 | Ground water | was not e | ncountered during testing | · · · · | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per cali | bration Certificate. (Values ar | re undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | lude Re-moulded values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | 1 | | | Rev2.8 |



| | D | CON | SULTIN | IG | Project Name Job Ref. Greenhill, Subdivision Testing Area M, Stage 14 | | | | EA-M-S14-01 |
|--------------------------|------------------------------------|--|---|--------------------------|---|--------------------------|-------------------------------------|---------------|----------------|
| | D | ENGI | NEERS | 5 | Tested by | | Date | Sheet No. | Test Site |
| | | | | | GetGeo | | 6/05/2021 | 27 | Lot 394 |
| Undrained Shear (kPa) | No of blows /100mm | Sca (E | la Penetrometo Blows/100mm) 6 8 10 12 1 | er 14 16 | Soil Description | | | | Water Table |
| | 4 5 6 4 | | G G F | Good Fround Result | Area heavily trafficke FILL dense | ed, many g ., resprea | ravels d topsoil, gravel | S | _ |
| | 7 13 13 10 8 8 4 | | | | Engineeree mixe | d FILL, sa d greys a | nd, silt, angular nd browns, moi | gravels st | |
| | 5 4 3 4 5 4 3 | | | | medium dense Silty SAN interbedded Silt, son | D, cream | y orange-brown | , moist | |
| | 2 | | | | | EOB Targ | @ 2.0m et Depth | | |
| Weather leadir | E ng up to te was not e | OB = End est was fine ncountered | Of Borehole and cool. No red during testing | UTF ecent (| P = Unable To Pen 10 days) rain. | etrate | UTE = Unabl | e To Extract | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

| | - | - | CONCULTING | Project Name Greenhill, Subdivision Te | esting Area M, | Job Ref. | A M 614 01 |
|---------------|--------------------------|--------------------------|---|---|-------------------------------------|----------------|--------------|
| | | R | LONSULTING | Stage 14 | - | 1/1/38-ARE | A-IVI-514-01 |
| | | | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | | GetGeo | 6/05/2021 | 28 | Lot 395 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | | Water Table | |
| 100 | | 2 | Result | - | | | |
| 200 | | 6 | Good | FILL, resprea | d topsoil, grave | ls | |
| 300 | | 7 | Ground | | | | - |
| 400 | | 7 | | dense | | | |
| 500 | | 8 | | | nd allt angular | arouolo | |
| 600 | | 5 | | Engineered FILL, sa | nd, siit, angular nd browns, mai | graveis | |
| 700 | | 5 | | Thixed greys a | | 51 | |
| 800 | | 7 | | | | | |
| 900 | | 1 | | - | | | |
| 1100 | | 2 | | stiff | | | |
| 1200 | | 2 | | - | | | |
| 1300 | | 2 | | - SILT, some sar | nds, orange-bro | wn | |
| 1400 | | 4 | | | | | |
| 1500 | | 3 | | sandy Silt, orange-brown, | | | |
| 1600 | | 4 | | | | | |
| 1700 | | 3 | | | | | |
| 1800 | | 2 | | loose | | | |
| 1900 | | 2 | | SAND, minor silt, mir | nor pumiceous r | materials | |
| 2000 | | 3 | | orange-b | rown, moist | | |
| 2100 | | | | EOB | @ 2.0m | | |
| 2200 | | | | Targe | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | - | | | |
| 2500 | | | | - | | | |
| 2600 | | | | - | | | |
| 2700 | | | | - | | | |
| 2800 | | | | 1 | | | |
| 2900 | | | | 1 | | | |
| 3000 | | | | 1 | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| Notes | | F | OB = End Of Borebole | P = nahle To Penetrate | UTF - Unabl | e To Extract | |
| 1 | Weather leading | ם na up to te | est was fine and cool. No recent (| (10 days) rain. | | | |
| 2 | Ground water | was not e | ncountered during testing | | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per cali | bration Certificate. (Values ar | e undrained sh | ear strength) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | - | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te | esting Area M, | Job I 171738-ARE | Ref. A-M-S14-01 |
|---------------|--------------------------|--------------------------|--|---|-------------------|---------------------|--------------------|
| | | D | ENGINEERS | Stage 14 | Dato | Shoot No | Tost Sito |
| × | | 100 | | | | 20 | |
| | | | | GetGeo | 6/05/2021 | 29 | LOI 396 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 10 | Good Ground | FILL, resprea | d topsoil, gravel | S | |
| 200 | | 12 | | dense | | | |
| 300 | | 8 | Result | | | | |
| 400 | | 12 | | Engineered FILL, s | ilt, sand, minor | topsoil | |
| 500 | | 15 | | minor gravels, r | nixed brown, m | oist | |
| 600 | | 12 | | | | | |
| 700 | | 13 | | | | | |
| 800 | | 12 | | | | | |
| 900 | | 7 | | very loose to loose | | | |
| 1000 | | 7 | | | | | |
| 1100 | | 5 | | SAND, some s | silt, some grave | ls | |
| 1200 | | 2 | | orange-b | prown, moist | | |
| 1300 | | 2 | | some pumiceous materials, mir | nor silt, grey | | |
| 1400 | | 1 | | | | | |
| 1500 | | 2 | | | | | |
| 1600 | | 1 | | | | | |
| 1700 | | 2 | | | | | |
| 1800 | | 2 | | gravelly Sand | | | |
| 1900 | | 5 | | | | | |
| 2000 | | 6 | | FOD | @ 1 0m | | |
| 2100 | | | | EUD | @ 2.011 | | |
| 2200 | | | | Taiye | ei Depin | | |
| 2300 | | | | | | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 2700 | | | | | | | |
| 2800 | | | | | | | |
| 2900 | | | | | | | |
| 3000 | | | | | | | |
| 3100 | | | | | | | |
| 3200 | | | | | | | |
| 3300 | | | | | | | |
| 3400 | | | | | | | |
| 3500 | | | | | | | |
| Notes: | | E | OB = End Of Borehole UTF | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| 1 | Weather leading | ng up to te | est was fine and cool. No recent (| 10 days) rain. | | | |
| 2 | Ground water | was not e | encountered during testing | | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per calib | pration Certificate. (Values ar | e undrained she | ear strength) | |
| 4 | Shear Vane re | cords incl | lude Re-moulded values where po | ossible | | | |
| 5 | Shear Vane Se | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |



(mm)

| | D | CONSULTING | Project Name Job Ref. Greenhill, Subdivision Testing Area M, Stage 14. 171738-AREA-M-S14-0 | | | | | | |
|--|--|--|--|--|--|----------------|--|--|--|
| | DE | ENGINEERS | Tested by | Date | Sheet No. | Test Site | | | |
| | | | GetGeo | 6/05/2021 | 30 | Lot 397 | | | |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) | Soil De | escription | | Water Table | | | |
| | 3 4 5 7 18 UTP 15 12 7 3 2 1 2 3 3 5 5 5 5 1 2 3 3 5 5 5 1 1 2 3 1 1 2 3 1 | George Constrained and a second distribution of the text of the text of the text of the text of text o | FILL, resprea dense Engineered FILL, silt, s some gravels, minor topsoil SILT, sand, yellow-bro loose SAND, some silt gravelly Sand, grey, moist EOB Targa | d topsoil, gravel and, some angu pil, grey, moist wn, some mottl grey-brown, m @ 2.0m et Depth | ls ular gravels ling, moist noist | | | | |
| | | | - | | | | | | |
| Weather leadi Ground water Shear Vane re | E ng up to te was not e eadings are | COB = End Of Borehole UT est was fine and cool. No recent encountered during testing e converted readings, as per cal | P = Unable To Penetrate (10 days) rain. ibration Certificate. (Values ar | UTE = Unabl | e To Extract ear strength) | | | | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARE | Ref. EA-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|-------------------|---------------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| 1 | and a second | 1 | | GetGeo | 6/05/2021 | 31 | Lot 398 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 1 | Good | FILL, resprea | d topsoil, gravel | S | |
| 200 | | 2 | Result | - | | | |
| 300 | | 3 | | | | | |
| 400 | | 6 | | Engineered FILL, sil | t, sand, angular | gravels | |
| 500 | | 10 | | mixed browns, | moist to very mo | oist | |
| 600 | | 6 | | | | | |
| 700 | | 4 | | | | | |
| 800 | | 3 | | minor topsoil, gravels | | | |
| 900 | | 3 | | | | | |
| 1000 | | 4 | | Slit, minor sand 800-1200mm | | | |
| 1100 | | 5 | | | | | |
| 1200 | | 3 | | | | | |
| 1300 | | ა ნ | | | | | - |
| 1400 | | 5 | | | | | |
| 1600 | | 3 0 | | SAND silt | somo aravels | | |
| 1700 | | 7 1/I | | dark orang | o-hrown moist | | |
| 1800 | | 14 | | | | | |
| 1900 | | 9 | | verv dense | | | |
| 2000 | | 11 | | | | | |
| 2100 | | | | EOB | @ 2.0m | | 1 1 |
| 2200 | | | | Targe | et Depth | | |
| 2300 | | | | ľ | · | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 2600 | | | |] | | | |
| 2700 | | | |] | | | |
| 2800 | | | | | | | |
| 2900 | | | | | | | |
| 3000 | | | | | | | |
| 3100 | | | | | | | |
| 3200 | | | | | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | | | | |
| 3500 | | | | | | | |
| Notes: | | E | OB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| 1 | Weather leading | ng up to te | est was fine and cool. No recent (| (10 days) rain. | | | |
| 2 | Ground water | was not e | ncountered during testing | | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per calil | bration Certificate. (Values ar | e undrained she | ear strength) | |
| 4 | Shear vane re | CUTUS INCI | 2004 Exp Date: 2/04/2021 | 0221016 | | | D2.0 |

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARE | Ref. : A-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|-------------------|-----------------------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | and the second | | | GetGeo | 6/05/2021 | 32 | Lot 399 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 2 | Result | FILL, resprea | d topsoil, gravel | S | |
| 200 | | 2 | Good | dense | | | |
| 300 | | 3 | Ground | | | | |
| 400 | | 6 | | Engineered FILL, sil | t, sand, angular | gravels | |
| 500 | | 6 | | mixed browns, i | moist to very m | oist | |
| 600 | | 15 | | | | | |
| 700 | | 9 | | | | | |
| 800 | | 9 | | minor pumiceous material | | | |
| 900 | | 11 | | | | | |
| 1000 | | 9 | | | | | |
| 1100 | | 5 | | - | | | |
| 1200 | | / | | - | | | |
| 1300 | | 9 | | como angular gravolo | | | |
| 1400 | | 12 | | some angular graveis | | | |
| 1500 | | 8 11 | | difficult to dotormino transition f | from Fill | | |
| 1700 | | 7 | | | | | |
| 1200 | | 7 | | Gravelly SAND min | or numiceous m | natorials | |
| 1000 | | 7 | | | u moist | ומנכוומוס | |
| 2000 | | , LITP | | verv dense | , moist | | |
| 2100 | | 011 | | FOB | @ 2.0m | | |
| 2200 | | | | Taro | et Depth | | |
| 2300 | | | | | | | |
| 2400 | | | | | | | |
| 2500 | | | | | | | |
| 2600 | | | | | | | |
| 2700 | | | | 1 | | | |
| 2800 | | | | 1 | | | |
| 2900 | | | | 1 | | | |
| 3000 | | | | 1 | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | 1 | | | |
| 3300 | | | |] | | | |
| 3400 | | | |] | | | |
| 3500 | | | | | | | |
| Notes: | | F | OB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| 1 | Weather leadi | ng up to te | est was fine and cool. No recent (| (10 days) rain. | | | |
| 2 | Ground water | was not e | ncountered during testing | ÷ · | | | |
| 3 | Shear Vane re | adings ar | e converted readings, as per calil | bration Certificate. (Values ar | e undrained she | ear strength) | |
| 4 | Shear Vane re | ecords incl | ude Re-moulded values where p | ossible | | | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/2021 | | | | Rev2.8 |



(mm)

| - | | | | | | Project Nam | ne Gulu III i dia Ta | | Job Ref. | |
|--|---|--------------------------|-----------------------------------|---|----------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-----------------|----------------|
| | R | CC | NS | ULT | ING | Greenhill, | Subdivision Te Stage 14 | sting Area M, | 171738-AR | EA-M-S14-01 |
| | D | EN | GI | NEE | RS | Tested by | | Date | Sheet No. | Test Site |
| | | | | | | G | etGeo | 6/05/2021 | 33 | Lot 400 |
| Undrained Shear (kPa) | No of blows /100mm | 0 | Scala (Bl | Penetro ows/100n | meter nm) 12 14 16 | | Soil De | escription | | Water Table |
| | 2 | | | | Good Ground | - | FILL, respread | d topsoil, grave | ls | |
| | 2 | | | | - Result | medium-dens | se | | | |
| | 3 6 3 | | \mathbf{r} | | | Engi | neered FILL, silt mixed browns, r | t, sand, angular noist to very m | gravels oist | |
| | 3 | | | | | _very stiff _dominated by | r silt, orange-browr | 1 | | |
| | 4 4 3 | | | | | - | | | | |
| | 4 | | | | | - | | | | |
| | 6 4 3 | | | | | - | | | | |
| | 4 7 | | | | | significant an | gular gravels | | | |
| | UTP | | | | | - | | | | |
| | | | | | | _ | EOB | @ 2.0m | | |
| | | | | | | | Targe | et Depth | | |
| | | | | | | _ | | | | |
| | | | | | | - | | | | |
| | | | | | | - | | | | |
| | | | | | | - | | | | |
| | | | | | | - | | | | |
| | | | | | | | | | | |
| 11/ 11 · · · | E | 0B = | End O | f Boreho | le UT | P = Unable T | o Penetrate | UTE = Unabl | e To Extract | |
| Weather leadi Ground water Shear Vane re | ng up to te was not e eadings are | est wa ncoui e con | as fine a ntered c verted r | and cool. I Iuring test readings, | No recent ting as per cali | (10 days) rain ibration Certifi | i. icate. (Values ar | e undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



(mm)

| - | | | Project Name Greenhill Subdivision To | sting Area M | Job Ref. | |
|-------------------------------|--------------------------|--|--|-------------------------------------|------------------------------|----------------|
| | R | CONSULTING | Stage 14 | | 171738-AR | EA-M-S14-01 |
| | | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | GetGeo | 6/05/2021 | 34 | Lot 328 |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| | 2 | Good Ground | FILL, resprea | d topsoil, grave | ls | |
| | 4 | Result | medium-dense | | | |
| | 6 8 4 | | Engineered FILL, sil mixed browns, I | t, sand, angular moist to very m | ⁻ gravels oist | |
| | 6 12 12 | | some large gravels | a | | |
| | 5 3 4 3 | | 700-1400mm dominated by silt, | , orange-brown, v | very moist | |
| | 5 6 4 | | 1400-2000mm dominatred by S | and, angular gra | vels, grey | |
| | 11 6 5 | | moist | | | |
| | 4 | | EOB | @ 2.0m | | - |
| | | | Targe | et Depth | | |
| | | | | | | |
| | | | - | | | |
| | | | - | | | |
| | | | - | | | |
| | | | - | | | |
| | E | OB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| Neather leadi Ground water | ng up to te was not e | est was fine and cool. No recent incountered during testing | (10 days) rain. | | | |
| shear Vane re | eadings ar | e converted readings, as per ca | ibration Certificate. (Values ar | e undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| | D | CONSULTI | NG | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job Ref. 171738-AR | EA-M-S14-01 |
|------------------------------|--|---|---------------------------|---|---------------------------------------|----------------------------|----------------|
| | D | ENGINEEF | SS | Tested by | Date | Sheet No. | Test Site |
| and a second | | | | GetGeo | 6/05/2021 | 35 | Lot 401 |
| Indrained hear (kPa) | No of blows /100mm | Scala Penetron (Blows/100m) 0 2 4 6 8 10 1 | neter m) 2 14 16 | Soil De | escription | | Water Table |
| | 1 | | Result | FILL, resprea | d topsoil, grave | S | |
| | 2 12 9 | | Ground | Engineered FILL, sil | t, sand, angular ey, dry | gravels | |
| | 11 9 6 7 6 3 4 2 | | | SAND, some fine to n minor pumiceous mater medium-dense minor gravels, moist orange-brown | nedium gravels, ials, light yellow | minor silt r-brown, dry | |
| | 4 3 4 2 4 4 4 | | | stiff SILT, minor fine sa trace orange | nd, creamy light e-mottling, moist | i-brown | |
| | | | | EOB Targ | @ 2.0m et depth | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| eather leadin round water | E ng up to te was not en padings are | OB = End Of Borehold est was fine and cool. N ncountered during testi | e UTF o recent (ng | P = Unable To Penetrate (10 days) rain. | UTE = Unabl | e To Extract | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



(mm)

| - | | | Project Name | | Job Ref. | |
|--|---|---|---|--|-------------------------|----------------|
| | D | CONSULTING | Greenhill, Subdivision Te Stage 14 | esting Area M, | 171738-AR | EA-M-S14-01 |
| | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| | | | GetGeo | 6/05/2021 | 36 | Lot 402 |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| | 4 | Good Ground | FILL, res | pread topsoil | | |
| | 7 5 7 5 4 4 4 3 5 | | Engineered FILL, s dark orange Silty SAND, yellow-bre minor silt some silt, moist | ilt, sand, minor (e-brown, moist own, orange mo | gravels ottling, dry | |
| | 5 8 8 5 4 7 | | gravelly Sand, minor pumice grey, moist | | | |
| | 5 | | EOB Targ | @ 2.0m et Depth | | - |
| | | | | | | |
| | | | | | | |
| | E | OB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| Weather leadi Ground water Shear Vane re | ng up to te was not e eadings are | est was fine and cool. No recent ncountered during testing e converted readings, as per cal | (10 days) rain. Ibration Certificate. (Values ar | e undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Exp. Date: 2/06/2021 Shear Vane Serial No.: 2086

|--|

| | | CON | ISU | | G | Greenhill, Subdivision Te | JOD Ref. 171738-AREA-M-S14-01 | | |
|--|---|---|----------------------------------|---|-------------|--|--|---------------|----------------|
| | D | ENG | INI | EERS | - | Stage 14 Tested by | Sheet No. Test Site | | |
| A Second | | | | | | GetGeo | 6/05/2021 | 37 | Lot 403 |
| Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | | | | Soil Description | | | Water Table |
| | 3 | | | Good Gr | Good Ground | FILL, respread topsoil, gravels | | | |
| | 2 2 3 4 7 4 | | | Result | | dense Engineered FILL, sand, orange-b some angular gravels, minor top | silt, minor angu rown, moist osoil | ular gravels | |
| | 4 3 4 3 7 2 | | | | | medium-dense SAND, some s orange-m | silt, yellow-brow ottling, moist | 'n | |
| | 3 8 6 | | | | | some gravels, minor silt | | | |
| | 4 4 5 6 5 | | | | | some pumiceous materials, gre | y, moist | | |
| | 5 | | | | | EOB | @ 2.0m | | |
| | | | | | | Targe | et Depth | | |
| | F | OB = En | nd Of Be | orehole | UTF | P = Unable To Penetrate | UTF = Unabl | e To Extract | |
| Weather leadi Ground water Shear Vane re | ng up to te was not e eadings are | est was fi ncounter e convert | ine and red durir ted reac | cool. No rec ng testing lings, as per | ent (| 10 days) rain. | e undrained sh | ear strength) | |

Shear Vane records include Re-moulded values where possible



| - | _ | | | Project Name Greenhill Subdivision | Job Ref. 171738-AREA-M-S14-01 | | |
|--|---|---|---|---|---|---------------|----------------|
| | R | CONSU | LTING | Stage 14 | | | |
| | D | INGINE | ERS | Tested by | Date | Sheet No. | Test Site |
| | | | | GetGeo | 6/05/2021 | 38 | Lot 404 |
| Undrained Shear (kPa) | No of blows /100mm | Scala Per (Blows | netrometer /100mm) 10 12 14 16 | Soil Description | | | Water Table |
| | 2 | | Good Ground | FILL, resp | FILL, respread topsoil, gravels | | |
| | 3 3 9 10 8 7 6 6 7 4 2 3 2 3 2 3 | | Results | dense Engineered FILL, sa orang some gravels, minor silt, gr yellow-brown medim-dense to loose SAND, some silt, y | and, silt, minor ang ge-brown, moist ey rellow-brown, orang moist | ular gravels | |
| | 2 3 3 3 | | | some gravels, minor pumic | eous materials OB @ 2.0m | | _ |
| | | | | T | arget Depth | | |
| | | | | | | | |
| | E | OB = End Of Bo | orehole UTF | P = Unable To Penetrate | e UTE = Unabl | le To Extract | |
| Neather leadi Ground water Shear Vane re | ng up to te was not e eadings are | est was fine and on ncountered durin e converted read | cool. No recent (ig testing ings, as per calil | (10 days) rain. bration Certificate. (Value | s are undrained sh | ear strength) | |

- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021
| | | | | Project Name Greenhill, Subdivision Te | esting Area M, | Job 171738-ARE | Ref. A-M-S14-01 |
|---------------|---|--------------------------|---|---|------------------|-------------------|--------------------|
| | | | | Stage 14 | Date | Shoot No | Tost Sito |
| 1 | | | ENGINEERS | GetGeo | 6/05/2021 | 39 | Lot 405 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 2 | Good | FILL, resprea | d topsoil, grave | ls | |
| 200 | | 2 | ground Besult | | | | |
| 300 | | 4 | | dense | | | |
| 400 | | 10 | | Engineered FILL, sand, | silt, minor angu | ular gravels | |
| 500 | | 9 | | orange-b | prown, moist | | |
| 600 | | 12 | | some gravels, minor silt, grey | | | |
| 700 | | UTP | | some large gravels, minor tops | oil | | |
| 800 | | | | | | | |
| 900 | | | | Silty SAND, li | ght-brown, mois | st | |
| 1000 | | 4 | | _ | | | |
| 1100 | | 4 | | some silt, grey-brown, minor or | ange-mottling | | |
| 1200 | | 5 | | | | | |
| 1300 | | 5 | | | | | |
| 1400 | | 6 | | | | | |
| 1500 | | 7 | | | | | |
| 1600 | | 4 | | - | | | |
| 1700 | | 4 | | becoming some pumiceous ma | terials | | |
| 1800 | | 4 | | light grey-brown, very moist | | | |
| 1900 | | 3 | | - | | | |
| 2000 | | 3 | | 500 | | | - |
| 2100 | | | | EOB | @ 2.0m | | |
| 2200 | | | | - I arge | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | - | | | |
| 2500 | | | | - | | | |
| 2000 | | | | - | | | |
| 2/00 | | | | - | | | |
| 2000 | | | | - | | | |
| 3000 | | | | 1 | | | |
| 3100 | | | | - | | | |
| 3200 | | | | 1 | | | |
| 3300 | | | | 1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| Notoc | | - | | - D - Upabla Ta Danatrata | | o To Extract | |
| 1 2 | Weather leading | ng up to te | est was fine and cool. No recent | (10 days) rain. | | | |
| 3 | Shear Vane re | adinas ar | e converted readings. as per cali | bration Certificate. (Values ar | e undrained sh | ear strenath) | |
| 4 | Shear Vane re | cords incl | ude Re-moulded values where p | ossible | | <u> </u> | |
| 5 | 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021 Rev2.8 | | | | | | |

| | | D | CONSULTING | Project Name Greenhill, Subdivision Te Stage 14 | esting Area M, | Job 171738-ARI | Ref. EA-M-S14-01 |
|---------------|--------------------------|--------------------------|---|---|-------------------|-------------------|---------------------|
| | | D | ENGINEERS | Tested by | Date | Sheet No. | Test Site |
| <u> </u> | A State | | | GetGeo | 6/05/2021 | 40 | Lot 406 |
| Depth (mm) | Undrained Shear (kPa) | No of blows /100mm | Scala Penetrometer (Blows/100mm) 0 2 4 6 8 10 12 14 16 | Soil De | escription | | Water Table |
| 100 | | 3 | Result | FILL< resprea | id topsoil, grave | ls | |
| 200 | | 3 | Good | | | | |
| 300 | | 6 | Ground | | | | |
| 400 | | 8 | | Engineered FILL, silt, s | and, minor angu | ılar gravels | |
| 500 | | 7 | | brown/ | grey, moist | | |
| 600 | | 9 | | | | | |
| 700 | | 8 | | | | | |
| 800 | | 5 | | SILT, minor sand | d, grey-brown, n | noist | |
| 900 | | 4 | | | | | |
| 1000 | | 7 | | | | | |
| 1100 | | 10 | | | | | |
| 1200 | | 2 | | SAND, silt, g | rey-brown, mois | it | |
| 1300 | | 2 | | minor silt, grey | | | |
| 1400 | | 2 | | | | | |
| 1500 | | 3 | | _ | | | |
| 1600 | | 1 | | _ | | | |
| 1700 | | 1 | | _ | | | |
| 1800 | | 1 | | _ | | | |
| 1900 | | 3 | | _ | | | |
| 2000 | | 2 | | 505 | ~ ^ ^ ^ | | - |
| 2100 | | | | – EOB | @ 2.0m | | |
| 2200 | | | | – I arg | et Depth | | |
| 2300 | | | | - | | | |
| 2400 | | | | - | | | |
| 2000 | | | | 4 | | | |
| 2000 | | | | - | | | |
| 2100 | | | | 4 | | | |
| 2000 20∩∩ | | | | -1 | | | |
| 3000 | | | | - | | | |
| 3100 | | | | 1 | | | |
| 3200 | | | | 1 | | | |
| 3300 | | | | -1 | | | |
| 3400 | | | | 1 | | | |
| 3500 | | | | 1 | | | |
| | | | | | | - | |
| Notes: | M/ | E | UB = End Of Borehole UT | P = Unable To Penetrate | UTE = Unabl | e To Extract | |
| | vveatner leadi | ng up to te | est was fine and cool. No recent | (10 days) rain. | | | |
| 2 | Shear Vano ro | was not e vadings ar | e converted readings, as nor ca | ibration Cortificate Maluos a | ra undrainad ch | aar strangth) | |
| Д | Shear Vane re | cords incl | lude Re-moulded values where i | ossible | | car sucriyur) | |
| 5 | Shear Vane S | erial No.: | 2086 Exp. Date: 2/06/202 | 1 | | | Rev2.8 |

| Appendix V | Stormwater Management |
|------------|----------------------------------|
| | On-lot Water Efficiency Measures |
| | Lot Levels (Minimum Lot Levels) |

ON-LOT WATER EFFICIENCY MEASURES

WATER SUPPLY AND WASTEWATER DISPOSAL

The efficiency of taps, showers and toilets contribute to how much water we use. A reduction in the use of potable water by each house directly relates to the amount of wastewater generated (i.e. reduced water use results in reduced wastewater generation). To reduce potable water demand and the amount of wastewater generated, as a minimum, each house is required to install low demand fittings for kitchen, bathroom and laundry facilities.

All household fittings are required to have a minimum 3 Star Rating.

STORMWATER DISPOSAL

Each lot is required to adopt an on-lot stormwater efficiency measure to ensure that surface water runoff is appropriately managed.

First, the suitability of the site for soakage needs to be assessed. Soakage is the process of helping stormwater soak into the ground using specially designed soakage devices. Soakage allows for the infiltration of stormwater into the soil which recharges the groundwater table below.

A site infiltration test is mandatory for all lots to confirm the in-situ soils are capable of achieving the minimum percolation rates. Refer to Hamilton City Council 'Three Waters Practice Note HCC 03: Soakage' for guidance on soil testing.



* Other alternative stormwater efficiency options will also be considered subject to approval by Greenhill Park and Hamilton City Council.

The selected option is to be designed by a suitably qualified Engineer and approved by the Hamilton City Council Building Control Unit. Refer to page 33 to 36 of these guidelines for further information of the design requirements for Options 1A, 1B & 2.

Hamilton City Council also encourages the installation of multiple stormwater efficiency options within a property, where practical.

Option 1A RAIN GARDEN - BIORETENTION

Design to provide minimum 'live storage' retention for runoff from a 10mm rainfall event for trafficked hardstand areas.

The following table outlines indicative storage volumes and estimated rain garden areas for a range of lot sizes.

| Lot Area (m²) | Live Storage Volume (m³) | Rain Garden Area (m²) |
|------------------|--------------------------------|-----------------------------|
| 300 | 0.8 | 4.1 |
| 350 | 0.9 | 4.7 |
| 400 | 1.1 | 5.4 |
| 450 | 1.2 | 6.1 |
| 500 | 1.4 | 6.8 |
| 550 | 1.5 | 7.4 |

Based on hardstand coverage equal to 30% of total lot area

KEY REQUIREMENTS

- Rain garden to be located to capture runoff from main hardstand areas within the lot (as much as practical).
- Maximum live storage depth to be 300mm (safety requirements to be considered when device is at maximum storage capacity).
- A channel and grate to be installed across vehicle entrance to capture hardstand run off and direct it to rain garden.

- \cdot Rain garden to be integrated with garden design (refer to page 34 for details).
- Overflow to be connected to stormwater connection provided.

FOR MORE INFORMATION

Refer to Hamilton City Council 'Three Waters Practice Note – HCC04 – Bio-retention (Rain Gardens)' for information on typical design requirements.



DIAGRAM — 7 Rain Garden — Bioretention

GREENHILL PARK RAIN GARDEN PLANT LIST

Native plants are encouraged, but other exotic plant species which complement your front yard planting design could be used. Deciduous plants should not be used as their leaf-fall can block the outflow.

Botanical Name

The plants selected need to -

- \cdot Be able to tolerate short periods of inundation and longer dry periods
- Be perennial rather than annual
- Have deep fibrous root systems and a spreading growth form
- Form a dense, weed-suppressing cover

| Apodasmia similis | oioi |
|-----------------------|------------------|
| Blechnum penna-marina | alpine hard fern |
| Libertia ixioides | mikoikoi |
| Carex dipsacea | teasel sedge |
| Carex secta | purei |
| Carex virgata | pukio |
| Dianella nigra | turutu |
| Libertia grandiflora | mikoikoi |
| Lobelia angulata | panakenake |
| Pimelea prostrata | pinatoro |

Common Name

All rain garden plants to be a minimum grade of Pb 8 at the time of planting. * Other plant species can be approved at the discretion of the Design Review Panel.



DIAGRAM - 8 Rain Garden Typical Location

Option 1B SITE SOAKAGE DEVICE - RETENTION

Design to provide minimum 'live storage' retention for runoff from a 10mm rainfall event for roof and trafficked hardstand areas.

The following table outlines indicative storage volumes for a range of lot sizes.

| Lot Area (m²) | Live Storage Volume (m³) |
|------------------|--------------------------------|
| 300 | 2.2 |
| 350 | 2.6 |
| 400 | 3.0 |
| 450 | 3.4 |
| 500 | 3.7 |
| 550 | 4.1 |

Based on 80% site coverage (roof and hardstand areas)

KEY REQUIREMENTS

- Soakage device(s) to be located to capture runoff from roof downpipes and hardstand areas (as much as practical).
- A channel and grate to be installed across vehicle entrance to capture hardstand run off and direct it to soakage device.
- Soakage device to be integrated with garden design.
- \cdot Overflow to be connected to stormwater connection provided.

FOR MORE INFORMATION

Refer to Hamilton City Council 'Three Waters Practice Note HCC 03: Soakage' for information on typical design requirements.



Site Soakage Device — Retention

Option 2 SLIMLINE RAIN TANK - RE-USE

The slimline rain tank is to be connected to a separate grey-water household re-use system with a minimum capacity of 5,000L.

KEY REQUIREMENTS

- Rain tank to be connected into a fully integrated grey-water re-use system within the main dwelling with connections to toilets, laundry and irrigation systems.
- All roof run-off is to be captured by rain tanks and available for re-use. Run-off from hardstand areas (driveways and paving) can be discharged directly into stormwater connection provided.
- A maximum of two (2) tanks may be used to achieve the required storage and align with downpipe locations.
- \cdot Overflow to be connected to stormwater connection provided.

LOCATION AND INSTALLATION

Slimline rain tanks should be placed in the rear or side yard of the lot as unobtrusively as possible. Care should be taken, where tanks are placed next to the house, to ensure they are placed adjacent to a blank wall and not infront of a window.

COLOUR

The colour of all rain tanks should match the colour of the homes exterior wall cladding adjacent to the tank.

* Colours that do not match but are complementary to the design and materials of the house can be approved at the discretion of the Design Review Panel.

FOR MORE INFORMATION

Refer to Hamilton City Council 'Three Waters Practice Note – HCC02 – Rainwater Reuse Systems (Rain Tanks)' for information on design requirements.

APPROVED RAIN TANK PRODUCTS

Tanksalot® Slimline Tank www.tanksalot.co.nz

ThinTanks[™] NZ Slimline Rainwater Poly Tank www.thintanks.co.nz

* Other rain tank products will also be considered subject to approval by Greenhill Park.

Note below ground tanks (sealed tanks only) are also considered an appropriate design option and are pre-approved for use on this subdivision.



Slimline Rain Tank - Re-use

| Lot | Stage | Minimum Lot Level (mRL) | 1% AEP Flood Level (mRL) | Flood Level Reference | Calculated Freeboard (to Lot Level) |
|-----|-------|----------------------------|--------------------------------|--------------------------|--|
| 347 | 12 | 38.703 | 36.46 | Swale 3B | 2.243 |
| 348 | 12 | 38.700 | 36.46 | Swale 3B | 2.240 |
| 349 | 12 | 38.751 | 36.46 | Swale 3B | 2.291 |
| 350 | 12 | 39.039 | 36.46 | Swale 3B | 2.579 |
| 351 | 12 | 39.109 | 36.46 | Swale 3B | 2.649 |
| 352 | 12 | 39.179 | 36.46 | Swale 3B | 2.719 |
| 353 | 12 | 39.248 | 36.46 | Swale 3B | 2.788 |
| 354 | 12 | 39.317 | 36.46 | Swale 3B | 2.857 |
| 355 | 12 | 39.393 | 36.46 | Swale 3B | 2.933 |
| 356 | 12 | 39.486 | 36.46 | Swale 3B | 3.026 |
| 357 | 13 | 38.000 | 38.00 | Swale 1D | 0.000 |
| 358 | 13 | 38.100 | 38.00 | Swale 1D | 0.100 |
| 359 | 13 | 38.263 | 38.00 | Swale 1D | 0.263 |
| 360 | 13 | 38.444 | 38.00 | Swale 1D | 0.444 |
| 361 | 13 | 38.670 | 38.00 | Swale 1D | 0.670 |
| 362 | 13 | 38.696 | 38.00 | Swale 1D | 0.696 |
| 363 | 13 | 38.925 | 38.00 | Swale 1D | 0.925 |
| 364 | 13 | 38.802 | 38.00 | Swale 1D | 0.802 |
| 365 | 13 | 38.681 | 38.00 | Swale 1D | 0.681 |
| 366 | 13 | 38.610 | 38.00 | Swale 1D | 0.610 |
| 367 | 13 | 39.145 | 38.00 | Swale 1D | 1.145 |
| 368 | 13 | 39.300 | 38.00 | Swale 1D | 1.300 |
| 369 | 13 | 39.448 | 38.00 | Swale 1D | 1.448 |
| 370 | 13 | 39.571 | 38.00 | Swale 1D | 1.571 |
| 371 | 13 | 39.713 | 38.00 | Swale 1D | 1.713 |
| 372 | 13 | 39.845 | 38.00 | Swale 1D | 1.845 |
| 373 | 13 | 39.987 | 38.00 | Swale 1D | 1.987 |
| 374 | 13 | 40.120 | 36.46 | Swale 3B | 3.660 |
| 375 | 14 | 39.017 | 37.24 | Swale 1 | 1.777 |
| 376 | 14 | 39.095 | 37.24 | Swale 1 | 1.855 |
| 377 | 14 | 39.170 | 36.40 | Swale 3A | 2.770 |
| 378 | 14 | 39.226 | 36.40 | Swale 3A | 2.826 |
| 379 | 14 | 39.174 | 36.40 | Swale 3A | 2.774 |
| 380 | 14 | 39.122 | 36.40 | Swale 3A | 2.722 |
| 381 | 14 | 39.069 | 36.40 | Swale 3A | 2.669 |
| 382 | 14 | 39.016 | 36.40 | Swale 3A | 2.616 |
| 383 | 14 | 39.162 | 36.40 | Swale 3A | 2.762 |
| 384 | 14 | 39.223 | 36.40 | Swale 3A | 2.823 |
| 385 | 14 | 39.305 | 36.40 | Swale 3A | 2.905 |
| 386 | 14 | 39.366 | 36.40 | Swale 3A | 2.966 |
| 387 | 14 | 39.427 | 36.40 | Swale 3A | 3.027 |



| Lot | Stage | Minimum Lot Level (mRL) | 1% AEP Flood Level (mRL) | Flood Level Reference | Calculated Freeboard (to Lot Level) |
|-----|-------|----------------------------|--------------------------------|--------------------------|--|
| 388 | 14 | 39.428 | 38.00 | Swale 1D | 1.428 |
| 389 | 14 | 39.316 | 38.00 | Swale 1D | 1.316 |
| 390 | 14 | 39.191 | 38.00 | Swale 1D | 1.191 |
| 391 | 14 | 39.419 | 38.00 | Swale 1D | 1.419 |
| 392 | 14 | 39.409 | 38.00 | Swale 1D | 1.409 |
| 393 | 14 | 39.325 | 36.40 | Swale 3A | 2.925 |
| 394 | 14 | 39.214 | 36.40 | Swale 3A | 2.814 |
| 395 | 14 | 39.130 | 36.40 | Swale 3A | 2.730 |
| 396 | 15 | 39.127 | 36.40 | Swale 3A | 2.727 |
| 397 | 15 | 39.222 | 36.40 | Swale 3A | 2.822 |
| 398 | 15 | 39.318 | 36.40 | Swale 3A | 2.918 |
| 399 | 15 | 39.429 | 38.00 | Swale 1D | 1.429 |
| 400 | 15 | 39.414 | 38.00 | Swale 1D | 1.414 |
| 401 | 15 | 38.923 | 38.00 | Swale 1D | 0.923 |
| 402 | 15 | 39.946 | 38.00 | Swale 1D | 1.946 |
| 403 | 15 | 39.233 | 38.00 | Swale 1D | 1.233 |
| 404 | 15 | 39.309 | 38.00 | Swale 1D | 1.309 |
| 405 | 15 | 39.278 | 38.00 | Swale 1D | 1.278 |
| 406 | 15 | 38.925 | 38.00 | Swale 1D | 0.925 |
| 407 | 15 | 39.339 | 38.00 | Swale 1D | 1.339 |
| 408 | 15 | 39.607 | 38.00 | Swale 1D | 1.607 |
| 409 | 15 | 39.358 | 36.46 | Swale 3B | 2.898 |
| 410 | 15 | 39.288 | 36.46 | Swale 3B | 2.828 |
| 411 | 15 | 39.215 | 36.46 | Swale 3B | 2.755 |
| 412 | 15 | 39.138 | 36.46 | Swale 3B | 2.678 |
| 413 | 15 | 39.057 | 36.46 | Swale 3B | 2.597 |
| 414 | 15 | 39.151 | 36.46 | Swale 3B | 2.691 |
| 415 | 15 | 39.231 | 36.46 | Swale 3B | 2.771 |
| 416 | 15 | 39.311 | 36.46 | Swale 3B | 2.851 |
| 417 | 15 | 39.391 | 36.46 | Swale 3B | 2.931 |
| 418 | 15 | 39.471 | 36.46 | Swale 3B | 3.011 |
| 419 | 15 | 39.544 | 38.00 | Swale 1D | 1.544 |
| 420 | 15 | 39.811 | 38.00 | Swale 1D | 1.811 |
| 421 | 15 | 39.930 | 35.46 | Swale 3B | 4.470 |
| 422 | 15 | 39.825 | 36.46 | Swale 3B | 3.365 |
| 423 | 15 | 39.741 | 36.46 | Swale 3B | 3.281 |
| 424 | 15 | 39.657 | 37.46 | Swale 3B | 2.197 |
| 425 | 15 | 39.571 | 38.46 | Swale 3B | 1.111 |
| 426 | 15 | 40.020 | 38.00 | Swale 1D | 2.020 |
| 427 | 15 | 39.908 | 38.00 | Swale 1D | 1.908 |
| 428 | 15 | 39.748 | 38.00 | Swale 1D | 1.748 |



APPENDIX 2

Roading QA Documentation

Road Subgrade - 2(a)

- Drawing 21879-M-14-BR1 (in lieu of strings)
- Clegg Hammer Tests

Road Basecourse 2(b)

- Nuclear Densometer Results
- Benkelman Beam Test Results
- Basecourse Strings
- GAP40 Material Tests

Surfacing & RAMM Data 2(c)

- HCC pavement RAMM data
- Surfacing RAMM data



APPENDIX 2(a)

Roading QA Documentation

Road Subgrade

- Drawing 21879-M-14-BR1 (in lieu of strings)
- Clegg Hammer Tests





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Ph: 07 853 9422

COMPACTION - CLEGG TESTS

| Contract | | GHP | Job No. | |
|------------------|----------------------|--------------|-------------------------|---------------------|
| Site/Chainage | Road 22 Stage 14 | | Date | 27/01/021 |
| Material | Brown Rock SIL | | Recorded by | Bikal Baniya |
| | | | | |
| Chn | 1m from kerb - | Centre Line | 1m from kerb - Right | Notes |
| 50 | 20 | | | |
| 60 | | | 33 | |
| 70 | 25 | | | |
| 80 | | | 37 | |
| 90 | 29 | | | |
| 100 | | | 26 | |
| 110 | 31 | | | |
| 120 | | | 30 | |
| 130 | 20 | | | |
| 140 | | | 22 | |
| 150 | 24 | | | |
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| | | | | |
| | | | | |
| | | | | |
| Source of conver | sion: Infe | rred CBR%=0. | 07(Impact Value |) ² /100 |
| Remarks | | | | |
| | | | | |
| | | | | |



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Ph: 07 853 9422

COMPACTION - CLEGG TESTS

| Comtro ot | | | lah Na | |
|-----------------|--------------------|----------------|--|------------------------|
| Contract | GRP | | _JOD NO | |
| Site/Chainage | e Road 34 Stage 15 | | Date | 27/01/021 |
| Material | Brown Rock SIL | | Recorded by _ | Bikal Baniya |
| | A ma fir a ma | | <u>г </u> | |
| Chn | kerb - Left | Centre Line | 1m from kerb - Right | Notes |
| 770 | 33 | | | |
| 780 | | | 37 | |
| 790 | 32 | | | |
| 800 | | | 28 | |
| 810 | 22 | | | |
| 820 | | | 26 | |
| 830 | 23 | | | |
| 840 | | | 30 | |
| 850 | 25 | | | |
| 860 | | | 28 | |
| | | | | |
| | | | | |
| | | | | |
| Source of conve | ersion: Infe | rred CBR% | =0.07(Impact Val | lue) ² /100 |
| Remarks | | | | |



P O Box 21187, Rototuna Hamilton, 3256 Email: Todd@onlinecontractors.co.nz

Ph: 07 853 9422

COMPACTION - CLEGG TESTS

| Contract | | GHP | Job No. | | |
|-----------------|--|---------------|---------------------------------|--------------|--|
| Site/Chainage | Road 36 Stage 15 Date Recorded by Brown Rock SIL | | Date | 26/01/021 | |
| Material | | | Recorded by | Bikal Baniya | |
| Chn | 1m from kerb - Left | Centre Line | 1m from kerb - Right | Notes | |
| 190 | 22 | | | | |
| 200 | | | 24 | | |
| 210 | 31 | | | | |
| 220 | | | 21 | | |
| 230 | 33 | | | | |
| 240 | | | 28 | | |
| 250 | 19 | | | | |
| 260 | | | 34 | | |
| 270 | 24 | | | | |
| 280 | | | 29 | | |
| 290 | 20 | | Γ | | |
| 300 | | | 23 | | |
| 310 | 31 | | | | |
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| | | | Ţ | | |
| | | | | | |
| | _ _ / | | | | |
| Source of conve | ersion: Infe | erred CBR%=0. | 07(Impact Value) ² , | /100 | |

APPENDIX 2(b)

Roading QA Documentation

Road Basecourse

- Nuclear Densometer Results
- Benkelman Beam Test Results
- Basecourse Strings
- GAP40 Material Tests
- S&L/HCC Correspondence regarding kerb and pavement changes (Please see Stage 12)





| Project : | Greenhill Park - Stage 14 |
|---------------|-----------------------------------|
| Location : | Road 22 |
| Client: | Online Contractors (2015) Limited |
| Contractor | Online Contractors (2016) Limited |
| lested by : | J. Waru-Savage, C. Robertson |
| Date tested : | 22/04/21 |
| | |



| and at the fact the set that when at the | GAP40 | (ex | Tauhei | Quarry) |
|--|-------|-----|--------|---------|
|--|-------|-----|--------|---------|

| 16253 | |
|-------|------|
| 2.73 | t/m* |
| 2.22 | t/mª |
| 6.0 | 96 |

| Project No : | 2-68015.00 |
|-----------------|---------------|
| Lab Ref No : | HA7252b_NDM R |
| Client Ref No : | |

| | and the second second | | | | Nuclei | ar Densom | eter Test Re | sults | | | | And in case of the second | |
|---------------------------------|-----------------------|---------|---------|---------|---------|------------|--------------|-------|---|---|------|---------------------------|------|
| Test Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | 1 | 10 | 1.8 | |
| Test Position | CH8O | CH90 | CHIOO. | CHIIO | CH115 | CH140 | CH150 | | | 1 | 1 | | |
| Offset | RHS OWT | LHS OWT | RHS OWT | LHS OWT | RHS OWT | RHS OWT | LHS OWT | | | 1 | 1 | | |
| Probe Depth (mm) | B/S | 8/S | B/S | B/S | B/S | B/S | B/S | 1 | 1 | 1 | N | | |
| Wet Density (t/m ²) | 2.25 | 2.31 | 2.33 | 2.23 | 2.28 | 2.24 | 2.24 | | | | | | |
| Dry Density (t/m ³) | 2.14 | 2.20 | 2.22 | 2.13 | 2.18 | 215 | Z.15 | | | | 1 | | |
| Water Content (%) | 5.3 | 4.9 | 4.9 | 4.7 | 4.7 | 4.3 | 4.3 | | | | | | |
| 96 of MDD | 96 | 99 | 100 | 96 | 98 | 97 | 97 | | | | | | |
| % Saturation | 52 | 55 | 58 | 45 | 51 | 43 | 44 | | | 1 | | | - |
| | | | | | | | | | 2 | | -104 | 14 | |
| and the second second | | | | | Ove | n Correcte | d Test Resu | lts | | | | | |
| Dry Density (t/m3) | 1 | | | | | | | | | | | | |
| Water Content (%) | | | | | | NOT T | ESTED | | | | | | |
| % of MDD | | | | | i | 1951 | | | | | 0 | | |
| 96 Saturation | | | | | | | Ĩ. | | | | | | |

| Test Methods | A LONG MADE NO. 1 | | Notes | | | | |
|--|-------------------------------|---|---|---|---|--|--|
| Insitu Density : N2S 4407: 2015, Test 4.3 for Backscatter Mode | | | MDD from WSP, Hamilton Leb - Leb ReFNo: HA6289/2_V | (MDO (Sept 2021) This report | This report may only be reproduced in full | | |
| | | | CH130 - Raised concrete pad, unable to test | | | | |
| Note: This report repla | ces HA72S2b_NDM, date | d 23/04/2021. This is because of IANZ Approved : | e misteke in the location name. Signatory | *CCREOI780 | All tests reported herein | | |
| Designation : Date reported : 23/04/21 Date : | | Designation : Date : | Seniar Civil Engineering Technician 04/05/21 | The Laborator | accordance with the laboratory's scope of accreditation | | |
| PF-LAB-037 (1/07/2020) | | | appe | | Page 1 of | | |
| WSP Hamilton (Fox St Quality Manager | nent Systems Certified to | 150 9001 | 4 Fox Street Private Bag 3057, Waikato Mail Centre, 3240, Hamilton, New Zealand | Telephone +64 7 856 Website www.wsp.co | 5 2870 om/hz | | |



| project : | Greenhill Park - Stage 14 |
|---------------|-----------------------------------|
| ocation : | Road 32 |
| Client : | Online Contractors (2016) Limited |
| Contractor : | Online Contractors (2016) Limited |
| fested by : | J. Waru-Savage, C. Robertson |
| Date tested + | 22/04/21 |
| | |

| Sample description : | GAP |
|-------------------------------|------|
| Nuclear densometer no : | 1625 |
| Solid density (tested) : | Z.73 |
| Max dry density (tested) : | 2.22 |
| Opt. water content (tested) : | 6.0 |

| CAP40 (ex Taurier Quarry) | CAP4 | 0 | (ex | Tau | hei | Qua | rry) |
|---------------------------|------|---|-----|-----|-----|-----|------|
|---------------------------|------|---|-----|-----|-----|-----|------|

| 16253 | |
|-------|------|
| Z.73 | t/m² |
| 2.22 | t/m* |



| Project No : | 2-68015.00 |
|--------------|-------------|
| Lab Ref No : | HA7252b_NDM |

| | and the second second | | | | Nuclea | r Densom | eter Test Re | sults | | | and the second distance of the | all the second second |
|---------------------------------|-----------------------|---------|---------|---------|---------|----------|--------------|-------|------|---|--------------------------------|-----------------------|
| Test Number | 1 | 2 | 35 | 4 | 5 | 6 | 7 | | | | | |
| Test Position | CH80 | CH9Q | CHIDO | CH110 | CH115 | CH140 | CH150 | _ | | | | |
| Offset | RH5 OWT | LHS OWT | RHS OWT | LHS OWT | RHS OWT | RHS OWT | LHS OWT | | | | | |
| Probe Depth (mm) | B/S | B/S | B/5 | B/S | B/S | 8/5 | 8/5 | | | | | - |
| Wet Density (t/m ³) | 2.2.5 | 2.31 | 2.33 | 2.23 | 2.28 | 2.24 | 2.24 | | | | | |
| Dry Density (t/m³) | 214 | 2.20 | 2.22 | 2.13 | 2.18 | 2.15 | 215 | | 1 | | 1 | |
| Water Content (%) | 5.3 | 4.9 | 4.9 | 4.7 | 4.7 | 4.3 | 4.3 | | | | | |
| 96 of MDD | 96 | 99 | 100 | 96 | 98 | 97 | 97 | | | 1 | | |
| % Saturation | 52 | 55 | 58 | 45 | 51 | 43 | 44 | | | | | |

| | Oven Corrected Test Results | | | | | | | | | | | | |
|---------------------------------|-----------------------------|--|--|------------|--|--|--|--|---|--|--|---|---|
| Dry Density (t/m ²) | | | | | | | | | 3 | | | - | |
| Water Content (%) | | | | NOT TESTED | | | | | | | | | |
| % of MDD | | | | HOTTESTED | | | | | | | | | 1 |
| % Saturation | | | | | | | | | | | | | |

| Test Methods | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Notes | and the second second second | |
|---|--|-----------------|---|-----------------------------------|---|
| insitu Density : NZS 44 | +07 : 2015, Test 4.3 für Bac | kscatter Mode | MDD from WSP, Hamilton Leb - Leb Ref No. HA6289/2_VH CH130 - Raised concrete pad, unable to test | MDD (Sept 2021) This rep | ort may only be reproduced in full |
| | | IANZ Approved : | Signatory July Senior Civil Engineering Technician | POCALDING | All tests reported herein have been performed in accordance with the laboratory's scope of |
| Date reported : | 23/04/21 | Date : | 23/04/21 | STORO LABOS PO | accreditation |
| PF-LAB-037 (11/07/2020) | | | | | Pagelof |
| WSP Hamilton (Fox St) Quality Manager | nent Systems Certified to | 150 9001 | 4 Fox Street Private Bag 3057, Walkato Mall Centre, 3240, Hamilton, New Zealand | Telephone +64 7 Website www.ws | 856.2870 sp.com/nz |



| Project : | Greenhill Park - Stage 14 |
|---------------|-----------------------------------|
| ocation : | Road 34 |
| Client : | Online Contractors (2016) Limited |
| Contractor : | Online Contractors (2016) Limited |
| lested by | J. Waru-Savage, C. Robertson |
| Date tested : | 22/04/21 |
| | |

| Sample description : | GAP |
|-------------------------------|------|
| Nuclear densometer no : | 1625 |
| Solid density (tested) : | 2.73 |
| Max dry density (tested) : | 2.22 |
| Opt. water content (tested) : | 6.0 |

| GAP40 (| ex Taul | hei Q |)uarry) |
|---------|---------|-------|---------|
|---------|---------|-------|---------|

| 16253 | |
|-------|------|
| 2.73 | t/m* |
| 2.22 | t/m* |

96



| | A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE | | - | | Nuclea | ar Densomi | eter Test Re | esults | | | | 1 |
|--------------------|--|---------|---------|---------|---------|------------|--------------|---------|---------|-----|-------|-------|
| Test Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| Test Position | CH850 | CH840 | CH830 | CH820 | CH810 | CH800 | CH790 | CH780 | CH770 | | | 11 |
| Offset | LHS OWT | RHS OWT | LHS OWT | RHS OWT | LHS OWT | RHS OWT | LHS OWT | RHS OWT | LHS OWT | | | |
| Probe Depth (mm) | B/S | B/S | B/S | B/S | B/S | B/S | B/S | 8/S | B/S | - 1 | - | |
| Wet Density (t/m*) | 223 | 2.22 | 2.26 | 2.26 | 2.24 | 2.29 | 2.23 | 2.25 | 2.28 | | | |
| Dry Density (t/m3) | 210 | 2.09 | 2.13 | 2.13 | 2,11 | 2.17 | 2.10 | 2.11 | 2.15 | _ | | 1 |
| Water Content (96) | 6.0 | 6.2 | 5.8 | 6.0 | 6.1 | 5.5 | 6.0 | 6.7 | 6.2 | | | |
| 96 of MDD | 95 | 94 | 96 | 96 | 95 | 98 | 95 | 95 | 97 | | | |
| 96 Saturation | 55 | S5 | .57 | 59 | 57 | 58 | 55 | 62 | 62 | | | 12 13 |

| Oven Corrected Test Results | | | | | | | | | | | |
|-----------------------------|--|---------|------|--|--|--|--|---|---|--|--|
| Dry Density (t/m²) | | | | | | | | 1 | | | |
| Water Content (%) | | NOT TE | STED | | | | | | | | |
| % of MDD | | 1997.13 | | | | | | | 1 | | |
| 96 Saturation | | | 4 | | | | | | 1 | | |

| Test Methods | S. Harrison and S. | | Notes | | | | | | |
|--|--------------------------------|--|---|------------------------------|---|-----------|--|--|--|
| Instu Density : NZS 4407 : 2015, Test 4.3 for Backscatter Mode | | | MDD from WSP, Hamilton Lab - Lab Ref No. HA6283/2_VHN | 100 (Sept 2020) This n | This report may only be reproduced in full | | | | |
| Date reported : | 23/04/21 | LANZ Approved S Designation : Date : | Signatory Jung Senior Civil Engineering Technician 23/04/21 | ACCREDITED | All tests reported herein hove been performed in accordance with the laboratory's scope of accoreditation | | | | |
| FE-LAB-037 (1)/07/2020(| | | | | | Page 1 of | | | |
| WSP Hamilton (Fox St Quality Manager |) nent Systems Certified to | 150 9001 | 4 Fox Street Private Bag 3057, Walksto Mail Centre, 3240. Hamilton, New Zealand | Telephone +6/ Website www | v 856 2870 wsp.com/hz | | | | |



Project : Greenhill Park- Stage 14 Location : Road 34 Client : Online Contractors (2016) Ltd Contractor : Online Contractors (2016) Ltd Tested by : C.Robertson, S.Cooke Date tested : 29/04/21 Sample description : Nuclear densometer no : Solid density (tested) : Max dry density (tested) : Opt. water content (tested) :

| GAP40 | ex Tauhei Quarry |
|-------|------------------|
| 33576 | |
| 2.73 | t/m² |
| 2.22 | t/m* |
| 6.0 | 96 |
| | |

 Project No :
 2-68015.00

 Lab Ref No :
 HA7277_NDM

 Client Ref No :
 Retest

| | | - | 1.00 | | Nuclea | r Densom | eter Test Re | esults | | And Address | 100 March 100 | 11000 | |
|--------------------|-------|-------|-------|-------|--------|----------|--------------|--------|-------|-------------|---------------|-------|--|
| Test Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | |
| Test Position | CH860 | CH850 | CH840 | CH830 | CH820 | CH810 | CHBOO | CH790 | CH780 | | | | |
| Offset | RWT | LWT | RWT | LWT | RWT | LW/T | RWT. | LWT | RWT | | | | |
| Probe Depth (mm) | B/S | B/S | B/S | B/S | B/S | B/S | B/S | B/S | B/S | | | | |
| Wet Density (t/m*) | 2.34 | 2.33 | 2.33 | 2.38 | 2.36 | 2.36 | 2.37 | 2.38 | 2.38 | | | | |
| Dry Density (t/m²) | 2.22 | 2.22 | 2.21 | 2.26 | 2.23 | 2.25 | 2.26 | 2.27 | 2.26 | | | | |
| Water Content (96) | 5.4 | 5.3 | 5.0 | 5,1 | 5.7 | 5.2 | 5.1 | 5.1 | 5.3 | | | | |
| 96 of MDD | 100 | 100 | 100 | 102 | 101 | 101 | 102 | 102 | 102 | | | | |
| 96 Saturation | 65 | 62 | 59 | 68 | 70 | 66 | 67 | 68 | 70 | | | | |

| | Oven Corrected Test Results | | | | | | | | | | | | | |
|--------------------|-----------------------------|--|------------|--|--|------|-------|--|---|--|---|---|----|---|
| Dry Density (t/m3) | | | | | | 12 | | | 5 | | | k | | 0 |
| Water Content (%) | | | | | | NOTT | ESTED | | | | | | | |
| 96 of MDD | | | NOT FEATED | | | | | | | | 1 | | 12 | |
| 96 Saturation | | | | | | | | | | | | | | |

| Test Methods | Notes | |
|---|---|--|
| Insitu Density NZ5 4407 2015, Test 4.3 for Backscatter Mode | Max dry density from : WSP Hamilton Lab-Lab Ref No. HA6289/R_VHMDD (Sept 2020) | This report may only be reproduced in full |

IANZ Approved Signatory

Date reported : 30/04/21

Designation : Date : Senior CIVII Engineering Technician 30/04/21

takan



All tests reported herein have been performed in accordance with the laboratory's scope of accorditation

Page 1 of 1

PFLA8-037 (1\/07/2020)

WSP Hamilton (Fox St) Quality Management Systems Certified to ISD 9001 4 Fox Street. Private Bag 3057, Walkato Mall Centre, 3240, Hamilton, New Zealand Telephone +64 7 856 2870 Website www.wsp.com/nz



| Project : | Greenhill Park - Stage 14 |
|---------------|-----------------------------------|
| ocation : | Road 36 |
| Client : | Online Contractors (2016) Limited |
| Contractor : | Online Contractors (2016) Limited |
| ested by : | J. Waru-Savage, C. Robertson |
| Date tested : | 22/04/21 |

 Sample description :
 TNZ

 Nuclear densometer no :
 1625

 Solid density (tested) :
 2.67

 Max dry density (tested) :
 2.18

 Opt. water content (tested) :
 7.0

TNZ40 (ex Gleeson Quarry) 16253 2.67 t/m^e 2.18 t/m² 7.0 %

 Project No:
 Z-68015.00

 Lab Ref No:
 HA7252a_NDM

 Client Ref No:

| Manager I. | | | | | Nuclea | ar Densom | eter Test R | esults | | | | | | |
|---------------------------------|--------|---------|---------|---------|---------|-------------|-------------|---------|---------|---------|---------|---------|--------|---------|
| Test Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Test Position | CH340 | CH330 | CH320 | CH310 | CH300 | CH270 | CH260 | CH250 | CH240 | CH230 | CH220 | CH210 | CH200 | CH190 |
| Offset | RHSOWT | LHS OWT | RHS OWT | RHS OWT | LHS OWT | RHS OWT | RHS OWT | LHS OWT | RHS OWT | RHS OWT | LHS OWT | RHS OWT | RHSOWT | LHS OWT |
| Probe Depth (mm) | B/S | B/5 | B/S | B/S | E/S | B/S | 8/5 | B/S | B/S | B/S | B/S | BIS | B/S | B/S |
| Wet Density (t/m ³) | 2.27 | 2.23 | 2.28 | 224 | 2.33 | 2.30 | 2.32 | 235 | 2.34 | 234 | 2.24 | 2.34 | 2.31 | 2.23 |
| Dry Density (t/m ²) | 2.16 | 2.13 | 2.18 | 2.11 | 2.22 | 2.21 | 2.24 | 2.26 | 2.25 | 225 | 215 | 2.25 | 2.21 | Z.15 |
| Water Content (%) | 4.9 | 4.7 | 4.7 | 5.9 | 5.0 | 4.0 | 3.6 | 4.1 | 3.8 | 3.7 | 4.Z | 3.9 | 4.3 | 4.1 |
| % of MDD | 99 | 97 | 100 | 97 | 102 | 101 | 103 | 104 | 103 | 103 | 98 | 103 | 102 | 98 |
| % Saturation | 56 | 49 | 56 | 60 | 65 | 51 | 50 | 60 | 55 | 54 | 46 | 55 | 56 | 45 |
| | | | | | | | ALCONDON D | 1 | | | | | | |
| | | | | - | Ove | en Correcte | d Test Resu | ults | 1.1 | | - | | | |
| Dry Density (t/m ¹) | k | | | | | - | 1. | | | (2 | | | | 1 |
| har and the second story | | | | | | | | | | | | | | |

| Dry Density (t/m ⁱ) | | | | | | 2 | | 1 |
|---------------------------------|---|--|-------|--------|--|-------|------|---|
| Water Content (96) | t | | NOTT | ETED | | 9 - O | | |
| 96 of MDD | | | NOTIE | ISTED. | | | | |
| % Saturation | | | - | 1 i | | | | 1 |

| Test Methods | | | Notes | | |
|--|--------------------------------|--|---|-------------------------------------|---|
| Insitu Density : NZS 4407 : 2015, Test 43 for Backscatter Mode | | MDD from WSP, Hamilton Lab - Lab Ref No: HA6290/1_VH | MDD (Sept 2021) This rep | port may only be reproduced in full | |
| | | | CH29D & CH280 - Raised concrete pad, unable to test | | |
| | | IANZ Approved S | Signatory Jerger | PECETOILEO | All tests reported herein |
| Date reported : | 23/04/21 | Designation : Date ; | Senior Civil Engineering Technician 23/04/21 | The second | accordance with the laboratory's scape of accreditation |
| PF-LAB-037 (11/07//2020) | | | | . [280. | Page1 of 1 |
| WSP | | | 4 Fox Street | Telephone +64 7 | 7 856 2870 |
| Hamilton (Fox St Quality Manager |] nent Systems Certified to | 150 9001 | Private Bag 3057, Walkato Mall Centre, 3240, Hamilton, New Zealand | Website www.w | sp.com/nz |



| Project: | Greenhill Park - Stage 14 |
|----------------------|-----------------------------------|
| Location : | Road 22 |
| Client : | Online Contractors (2016) Limited |
| Contractor: | Online Contractors (2016) Limited |
| Test method : | TNZ T/1 1977 |
| Pavement type : | GAP40 |
| Pavement temp "C : | - |
| Weight on rear axle: | 8.3 tonnes |
| Tested by : | J. Waru-Savage, C. Robertson |

| Project No : | 2-68015.00 |
|--------------|------------|
| Lab Ref No : | HA7252b R |
| Client Ref : | |

| Late 10 | 170 61.00 | Local Alignetic Inc. | Test Results |
|----------|-----------|----------------------|--|
| Location | | Deflections (nym) | |
| (destaus | LHSOWT | RHS OWT | Comments |
| 80 | | 1.02 | |
| 90 | 0.88 | | * indicates that there was a raised concrete pad |
| 100 | | O.88 | therefore, unable to test. |
| 110 | 0.52 | | |
| 115 | | Q.84 | LHS OWT = Left Hand Side Outer Wheeltrack |
| 130 | 114 | | RHS OWT = Right Hand Side Outer Wheeltrack |
| 145 | | 0.88 | |
| 150 | 0.84 | | |
| | | | |
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| | | | |
| | | | |
| | 0. | 94 | 90 Percentile calculated for all data in columns 1 to 2. |

Deflection Statistical Analysis (for all deflections)

Minimum (mm) - 0.62 Average (mm) - 0.85

Note: Results in Italics have a difference between intermediate and Final readings that are greater than 3 (reler TNZ 7/11977).

Note: This report replaces HA7252b, dated 23/04/2021 This is because of a mistake in the location name.

This report may only be reproduced in full

| Date tested : | |
|-----------------|--|
| Date reported : | |

22/04/2021 23/04/2021

IANZ Approved Signatory

Maximum (mm): 1.02

Designation : Date :

Senior Civil Engineering Technician 4/05/2021



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

PELAB-066 (11/07/2020)

WSP

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Telephone +64 7 855 2870

Webste www.wsp.com/hz



| Project: | Greenhill Park - Stage 14 |
|----------------------|-----------------------------------|
| Location : | Road 32 |
| Client : | Online Contractors (2016) Limited |
| Contractor: | Online Contractors (2016) Limited |
| Test method : | TNZ T/I 1977 |
| Pavement type : | GAP40 |
| Pavement temp *C : | - |
| Weight on rear axle: | 8.3 tonnes |
| Tested by: | J. Waru-Savage, C. Robertson |

| Project No : | 2-68015.00 |
|--------------|------------|
| Lab Ref No ; | HA7252b |
| Client Ref: | |

| | | | Test Results |
|----------|---------|-------------------|--|
| Location | | Deflections (men) | Comments |
| Metres | LHS OWT | RHS OWE. | Comments |
| 80 | | 1.02 | |
| 90 | 0.88 | | "indicates that there was a raised concrete pad |
| 100 | | 0.88 | therefore, unable to test. |
| 110 | 0,62 | | |
| ns | | 0.84 | LHS OWT =Left Hand Side Outer Wheeltrack |
| 130 | | 1000 | RHS OWT = Right Hand Side Outer Wheeltrack |
| 145 | 1001009 | 0.88 | |
| 150 | 0.84 | | |
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| | | | |
| | 0. | 34 | 90 Percentile calculated for all data in columns 1 to 2. |

Deflection Statistical Analysis (for all deflections)

| Maximum (mm) | 1.02 | Minimum (nnm) : 0.62 | Average (mm): 0.85 | |
|---|--|----------------------|---|--|
| man and an an | Carrier and the second and the second s | | A second s | |

Note: Results in Refus have a difference between Intermediate and Final readings that are greater than 3 (refer TN2 T/) 1977).

This report may only be reproduced in full

Date tested : Date reported : 22/04/2021 23/04/2021



Approved

Designation : Date : Senior Civil Engineering Technician 23/04/2021

PF-LAB-066 (IU07/2020)

WSP 4 Fox Stirret Hamilton (Fox St) Private Bag 3057, Walkato Mail Centre, Quality Management Systems Certified to ISO 9001 3240, Hamilton, New Zealand Page 1

Telephone +64 7 856 2870 Webste www.wsp.cominz

| Project: | Greenhill Park - Stage 14 |
|----------------------|-----------------------------------|
| Location : | Road 34 |
| Client: | Online Contractors (2016) Limited |
| Contractor : | Online Contractors (2016) Limited |
| Test method : | TNZ T/1 1977 |
| Pavement type: | GAP40 |
| Pavement temp "C : | - |
| Weight on rear axle: | 8.3 tonnes |
| Tested by: | J. Waru-Savage, C. Robertson |

| Project No : | 2-68015.00 |
|--------------|------------|
| Lab Ref No : | HA7252c |
| Client Ref: | |

1150

| Deflections (nml) Community Metree UHS OWT 9HS OWT Community 850 0.92 0.98 0.98 1.08 0.98 1.08 0.98 1.08 0.93 1.08 0.98 1.08 0.98 1.08 0.98 1.08 0.98 1.08 0.99 1.08 0.668 1.14 1.58 UHS OWT = Left Hand Side Outer Wheeltrack RHS OWT = Right Hand Side Outer Wheeltrack RHS OWT = Right Hand Side Outer Wheeltrack 1.48 0.148 1.48 0.148 1.48 1 | | | | Test Results |
|---|----------|---------|------------------|--|
| Metere UHS OWT RHs OWT COUNTWILS 850 0.92 0.98 0.98 830 1.08 0.66 0.66 810 114 0.66 0.114 800 1.58 0.66 0.114 800 1.58 0.66 0.114 790 1.30 1.48 0.148 7770 1.12 1.48 0.148 | Location | | Deflections (mm) | |
| 850 0.92 840 0.98 830 1.08 820 0.68 810 1.14 800 1.58 790 130 780 1.48 7770 112 | Metres | LHS OWT | RHS OWT | Counters |
| 840 0.98 830 1.08 820 0.68 810 114 600 1.58 790 1.30 780 1.48 770 112 | 850 | 0.92 | | |
| 830 1.08 820 0.68 810 114 800 1.58 790 130 780 1.48 7770 112 | 840 | | 0.98 | |
| 820 0.68 810 134 800 1.58 790 130 780 1.48 7770 112 | 830 | 1.08 | | |
| 810 114 LHS OWT = Left Hand Side Outer Wheeltrack 800 1.58 RHS OWT = Right Hand Side Outer Wheeltrack 780 1.48 770 770 112 112 | 820 | | 0.68 | |
| 800 1.58 RHS OWT = Right Hand Side Outer Wheeltrack 780 1.48 770 112 | 810 | 114 | | LHS OWT = Left Hand Side Outer Wheeltrack |
| 790 130 780 148 770 112 | 800 | | 1.58 | RHS OWT = Right Hand Side Outer Wheeltrack |
| | 790 | 1.30 | 1.20 | |
| | 780 | | 1,48 | |
| | 770 | 112 | | |
| | | | | |
| 90 Borcentile calculated for all class in columns 1 to | | 1 | 5 | B0 Descentile calculated for all data in columnia 1 to 2 |

Deflection Statistical Analysis (for all deflections)

| Maximum (mm): 158 | Minimum (mm) : 0.68 | Average (mm): 1.14 |
|--|--|-------------------------------------|
| Note: Results in italics have a difference between | intermediate and Final readings that are g | reater than 3 (refer THZ T/1 1977). |

| | 11 | his report may only be reproduc | ed in full | |
|-------------------|------------------|---------------------------------|-------------------------|---|
| Date tested : | 22/04/2021 | | | |
| Date reported : | 23/04/2021 | 1.000 mg | | |
| IANZ Approved Sig | inatory | NA . | * ^{CCMXD/T} PO | All tests reported harein have been performed in |
| Designation : | Seniar Civil Eng | gineering Technician | IANA , | occordonce with the loboratory's score of |
| Date : | 23/04/2021 | | Silko LABORASO | appreditation |
| | | | | |

PELA8-066 (1007/2020)

WSP Hamilton (Fox St) Quality Management Systems Certified to ISO 9001 4 Fox Street Private Bag 3057, Walikato Mail Cantre, 3240, Hamilton, New Zaaland Page 1

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| Greenhill Park- Stage 14 |
|-------------------------------|
| Road 34 |
| Online Contractors (2016) Ltd |
| Online Contractors (2016) Ltd |
| TNZ T/1 1977 |
| GAP40 |
| - |
| 8.3 tonnes |
| C.Robertson, S.Cooke |
| |

| Project No : | 2-68015.00 |
|--------------|------------|
| Lab Ref No : | HA7277 |
| Client Ref i | Rotest |

| | | | Test Results | | |
|-------------------|---------|--------------------------|--------------|--|----|
| Locations | | Deflections (my | cu) | Comments | |
| Metres | Left WT | Right WT | | Centraline | - |
| 780 790 800 | Left WF | Right WT 1.24 0.88 | | Comments | |
| | | 27 | 90 | Percentile calculated for all data in columns 1 to | 12 |

Deflection Statistical Analysis (for all deflections)

Maximum (mm): 1.28 Minimum (mm) : 0.88 Average (mm): 1.13

Note: Results in Italics have a difference between Intermediate and Final readings that are greater than 3 (refer TNZ TA1977).

This report may only be reproduced in full

| Date | tested : | |
|------|------------|--|
| Date | reported : | |

29/04/2021 30/04/2021

IANZ Approved Signatory

Designation : Date : Senior Civil Engineering Technician 30/04/2021



All tests reported herein have been performed in accordance with the laboratory's scope of accorditation

PE-LAB-066 (11/07/2020)

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Hamilton (Fox St) Quality Management Systems Certified to ISO 9001

| Project : | Greenhill Park - Stage 14 |
|----------------------|-----------------------------------|
| Lucation : | Road 36 |
| Client: | Online Contractors (2016) Limited |
| Contractor : | Online Contractors (2016) Limited |
| Test method : | TNZ T/1 1977 |
| Pavement type : | TNZ40 |
| Pavement temp °C : | |
| Weight on rear axle: | 8.3 tonnes |
| Tested by : | J. Waru-Savage, C. Robertson |

| Project No : | 2-68015.00 |
|--------------|------------|
| Lab Ref No : | HA7252a |
| Client Ref : | |

112

| | | | Test Results | | | | |
|----------|----------------|------------------|--|--|--|--|--|
| Location | and the second | Deflections (mm) | Conversion | | | | |
| Mettes | LHS OWT | RHS OWT | | | | | |
| 340 | - | 0.80 | 200 CTL 12 DV2/201 12 DV 12 | | | | |
| 330 | 0.78 | 1.00-10011.a | * indicates that there was a raised concrete pad | | | | |
| 320 | | 0.82 | therefore, unable to test. | | | | |
| 310 | 0.88 | 1.20-20 | | | | | |
| 300 | | O.84 | LHS OWT = Left Hand Side Outer Wheeltrack | | | | |
| 290 | | 1.2.2.0510 | RHS OWT = Right Hand Side Outer Wheeltrack | | | | |
| 280 | | S. # S. | | | | | |
| 270 | 072 | | | | | | |
| 260 | | 0.84 | | | | | |
| 250 | 0.74 | | | | | | |
| 240 | | 0.80 | | | | | |
| 230 | 0.80 | C | | | | | |
| 220 | 0.00 | 090 | | | | | |
| 200 | 0.92 | 0.00 | | | | | |
| 200 | 1.29 | 0,00 | | | | | |
| 190 | 1.2.0 | | | | | | |
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| | | () | | | | | |
| | 0. | 91 | 90 Percentile calculated for all data in columns1 to 2 | | | | |

Deflection Statistical Analysis (for all deflections)

Maximum (mm): 128 Minimum (mm): 0.72 Average (mm): 0.85

Note. Results in italics have a difference between intermediate and Final readings that are greater than 3 (refer TNZ T/I 1977).

This report may only be reproduced in full Date tested : 22/04/2021 23/04/2021 Date reported : SCHEDING. IANZ Approved Signatory Senior Civil Engineering Technician Designation : 克 23/04/2021 Date MIG EARORF

PF-LAB-065 (1)/07/2020)

WSP Hamilton (Fox 5b) Quality Management Systems Certified to ISO 9001

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Page 1

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| Average | 90% | MAX |
|---------|------|-----|
| 1.1 | 1.35 | 1.8 |

| | Tes | st Date 22/04/2021 | |
|--------|----------|--------------------|-----------|
| | | ROAD 34 | |
| | | Location | |
| Meters | Left OWT | Centre | Right OWT |
| 850 | 0.92 | | |
| 840 | | | 0.98 |
| 830 | 1.08 | | |
| 820 | | | 0.68 |
| 810 | 1.14 | | |
| 800 | | | 0.88 |
| 790 | 1.28 | | |
| 780 | | | 1.24 |
| 770 | 1.12 | | |

| Average | 90% | MAX |
|---------|-------|------|
| 1.04 | 1.248 | 1.28 |
| PASS | PASS | PASS |

| C | ONTH | RACI | OKS | | | | | 1 2010 | |
|-------------|-------------|---------------|-------|---------------|-----------------|-----------------------|----------------|--------------|------|
| | | | CONST | RUCTION D | IMENSIO | NS NS | HSC P | 22-1-1 | 1 |
| Container . | | | | | Links Kim. | | | | |
| like . | GHP | | | | n++ 24 | 104/02 | 1 | | 1 |
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| lavaria | 1040 | - | | | Reasonal Sector | THE REAL PROPERTY. | 50 100 | 1.000 | 1 |
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| Nrm 17 | 2.30 | 1949 | | | Base | course Th2 Br2 tel. | -5 mm | 11 mm | Ľ |
| | | (9 A. | _ | Day in Lation | and the later | | | | ١. |
| Din. | tion din in | e Kezh der | 201 | Left Brt | signi im | 0 🚛 10 | = K.Fr/b 4m | Anger Ber | - 01 |
| 740 | -72/1 | 7 24 | 1.10 | 270 | | 120 | 0.000 | | |
| 240 | 12- | 630 | | 0.30 | | 2.40 | | - | 1 |
| 500 | 2415 | | | 2.25 | | 225 | | | 1. |
| RIU | 275 | | | 235 | | 225 | | 1 | |
| 820 | 230 | 1 | | 235 | | 240 | | | 1 |
| 830 | 235 | | | 230 | | 230 | | | |
| 840 | 240 | | | 235 | | 235 | | | 1 |
| 850 | 240 | | | 230 | | 235 | | | |
| 800 | 240 | | | 230 | | 240 | | _ | |
| -22 | | | | 22. | - | A11- | - | - | |
| 50 | 230 | | | 230 | | 640 | | - | ł |
| 40 | 225 | - | | 220 | | 270 | 1 | + | |
| Und: | 225 | | | 230 | | 230 | | - | 1 |
| 110 | 225 | | | 235 | | 240 | | | 1 |
| 120 | 230 | | | 235 | | 230 | | | 1 |
| 140 | 2.35 | | | 225 | | 230 | | | 1 |
| 150 | 240 | | | 225 | | 235 | | | 1 |
| | | | | 240 | - | 0.114 | - | | ł. |
| 330 | 270 | - | | 2-33 | 240 | 270 | | - | 1 |
| 210 | 240 | | | 240 | 240 | 340 | | 1 | |
| 200 | 225 | - | | 730 | 275 | 235 | | 1 | |
| 2 213 | 230 | | | 235 | 235 | 230 | | - | 1 |
| 260 | 240 | | | 240 | 235 | 230 | | | 1 |
| 250 | 235 | | | 240 | 240 | 2.35 | | | 1 |
| 240 | 240 | | | 240 | 240 | 240 | | | |
| 230 | 235 | | | 240 | 230 | 235 | | | |
| 220 | 230 | | | 235 | 230 | 230 | | | |
| 210 | 335 | | | 240 | 230 | 230 | | | |
| 200 | 235 | | | 235 | 230 | 225 | | | |
| 190 | 235 | | | 240 | 230 | 230 | - | - | |
| | | | | | | | | | |

APPENDIX 2(c)

Roading QA Documentation

Surfacing & RAMM Data

- HCC pavement RAMM data
- Surfacing RAMM data



F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision | GREENHILL | PARK STA | AGE 1 | 7 |
|--------------------------------------|-------------------------------|-------------------|-------|-----|
| Road No / Name | ROAD 22 | CKIBBLEW | HITE | RD) |
| Start m | 50 | Start Description | LOT | 401 |
| End m | 150 | End Description | LOT | 406 |
| Width | 5.5m | | | |
| Basecourse | | | | |
| Date Completed | _28-4-20 | DZ1 | | |
| Thickness | 200 mm | 1 | | |
| Grading | GAP 40 |) | | |
| Quarry | STEVENSONS | 5 TAUHEI | | |
| Sub-Base | | | | |
| Date Completed | NIL | / | | |
| Thickness | / | | | |
| Grading | / | | | |
| Quarry | / | | | |
| Undercut / Imported | / I Subgrade (If Required) | | | |
| Whole Site | (Yes)/ No | | | |
| Length | 100 m | | | |
| Width | 6- | | | |
| Depth | SOOMA | | | |
| Backfill Material | BLUE BRO | WWN Rock | | |
| Subgrade CBR Wit Stabilisation | thout | | | |
| Material | | | | |
| Stabilised? | (No)/ Cement / Li | ne | | |
| % Stabilising Agent | 3 - 2. | | | |
| Stabilised Depth | | | | |
| Stabilised CBR | | | | |

Regional Infrastructure Technical Specifications



F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision | GREENHILL PARK STAGE 14 | |
|---------------------------------------|-------------------------------|--|
| Road No / Name | ROAD 34 (OSILVIE AVE) | |
| Start m | 780 Start Description LOT 382 | |
| End m | 860 End Description ROAD ZZ | |
| Width | 5.5m | |
| Basecourse | | |
| Date Completed | 28-4-2021 | |
| Thickness | 200 mm | |
| Grading | GAP 40 | |
| Quarry | STEVENSONS TAUHEN | |
| Sub-Base | | |
| Date Completed | NIL | |
| Thickness | | |
| Grading | | |
| Quarry | | |
| Undercut / Imported S | Subgrade (If Required) | |
| Whole Site | (Yes) / No | |
| Length | 80 m | |
| Width | 6m | |
| Depth | 500 mm | |
| Backfill Material | BLUE BROWN ROCK | |
| Subgrade CBR With Stabilisation | nout | |
| Material | | |
| Stabilised? | No/ Cement / Lime | |
| % Stabilising Agent | | |
| Stabilised Depth | | |
| Stabilised CBR | | |



F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision | SREENHILL PARK STAGE 14 |
|--|---------------------------------|
| Road No / Name | RAD 36 (GUILLAUME ST) |
| Start m | 190 m Start Description Lot 395 |
| End m | 340m End Description Lot 402 |
| Width | 5.5m |
| Basecourse | |
| Date Completed | 28-4-2021 |
| Thickness | 200 mm |
| Grading | GAP 40 |
| Quarry | STEVENSONS TANKE! |
| Sub-Base | |
| Date Completed | NIL |
| Thickness | |
| Grading | |
| Quarry | |
| Undercut / Imported S | ubgrade (If Required) |
| Whole Site | (Ves) / No |
| Length | 150m |
| Width | 6m |
| Depth | 500 mm |
| Backfill Material | BLUE BROWN ROCK |
| Subgrade CBR Witho Stabilisation | ut |
| Material | |
| Stabilised? | No Cement / Lime |
| % Stabilising Agent | |
| Stabilised Depth | |
| Stabilised CBR | |



F3.7 RAMM ASPHALT DATA

(to be completed for each seal layer on each road section)

| Subdivision Stage 19 | - Ugreenfull. |
|--|-----------------------|
| Road No / Name Road 3 | 14,36 and 22 |
| Start m | Start Description |
| End m | End Description |
| Width | |
| Contractor | Online Continue of. |
| Date of Work | 09/05/21 |
| Asphalt Type (circle one) | AC OGPA / SMA / Other |
| Grading (e.g. M/10 DG10) | DU-7 |
| Area Surfaced (m²) | 1706 m2 |
| Average thickness (mm) | - 31 mm - |
| Laying Temperature (°C) Tack Coat Residual Application Rate (L/m²) | _148°C 1.0L/m² |
| Additional Notes (e.g. Weather, Temp, Polymer Modification) | Dary. |
| | |

Regional Infrastructure Technical Specifications



UPDATED MAY 2018

F3.8 RAMM CHIPSEAL DATA

(to be completed for each seal layer on each road section)

| Subdivision Storge 1 | 4 - Mgeenfull Subdivision |
|--|---|
| Road No / Name Road | act 34, 36 and 22. |
| Start m | Start Description |
| End m | End Description |
| Width | |
| Contractor | Online Contractoons. |
| Date of Work | 03/05/21 |
| Seal Type (circle one) | (1 Cost) Racked in Chipseal / 2 Cost / Other: |
| Seal Reason | Waterproofing First Coat / Second Coat / Asphalt Membrane |
| Area Sealed (m²) | 1706 m2 |
| Chip Grading (e.g. 3/5) | Unade 4 |
| Binder Type (e.g. B180/200) | CRS-2 Emulsion. |
| Chip Source Company | J. Swap. |
| Chip Source Quarry Total Volume of Binder Used (Hot) (Litres) | - Jorotano 9009. 2388.4 lifeors. |
| Temperature of Binder (°C) | 80°C. |
| Residual Binder Rate (L/m²) | 1.0 4/02 |
| Cutter (e.g. 3 pph Kero) Other Additives with concentrations (e.g. Polymer modification RS1, 3%) | |
| Sealing Notes (e.g. Weather, Temp) | |
| | |
| Surfacing Chip PSV testing form attach | ed 🗆 |

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APPENDIX 3

Water Construction QA Documentation

- Pipe Laying Checklists F6.2
- Final Inspection Checklist F6.3
- Laboratory Water Test Results
- Pressure Test Results



Waikato Local Authority = SHARED SERVICES Ø

WATER SUPPLY PIPE LAYING CHECKLIST

SITE ADDRESS: GREENHILL PARK - STAGE 15.

NAME OF DEVELOPER: CHEDWORTH PROPERSIES LAD.

NAME OF QUALIFIED WATER SERVICE PERSON:

TE PULL SHEEHAN

| Location: Pipe length (Intersection and side) FROM | PD 27 512 | 2022 | Rezz | R036 S12 | 20 36 512 |
|---|-------------------------|-------------------------|-------------------------|----------------------|------------------------|
| то | R022 | 2037 | R037 | KD 22 | 2022 |
| | Tick if satisfactory | Task if satisfactory | Tick if satisfactory | Tick if satisfactory | Tick # matinfactory |
| Pipe size, pressure rating, material, acceptable products checked (atlach photo of manufacturer's stamp on pipe) | 150 PN12.5 | 190 PN12.5 | 63 AN12.5 | 150 PN12-5 | 62 PNR.S |
| Foundation support attached | × | x | ۴ | × | × |
| Dynamic cone penetrometer (DCP) results available | × | 70 | ۴ | × | κ |
| If under-cutting required, note metreage and DCP: | × | × | * | × | ¥ |
| Bedding type and backfill material (DCP results for road crossings and driveways attached?) YES NO | SAND | SAND | Shino | como | SANO |
| Valves and hydrants not in carriageway | 1 | 1 | 1 | 1 | 1 |
| Alignment and cover | 1 | 1 | 1 | 1 | ~ |
| All service connections in place (Table of water meter and backflow preventor numbers with corresponding lot numbers attached?) YES V NO | 1 | / | ~ | 1 | ~ |
| Connections and Toby Box correctly located horizontally and vertically (as per standard drawings) | 1 | ~ | / | 1 | / |
| Hydrants and valves positioned correctly (as per standard drawings) | 1 | 1 | 1 | 1 | ~ |
| Thrust blocks installed | ~ | 1 | / | 1 | 1 |
| Pipelines flushed | 1 | 1 | 1 | 1 | / |
| As-built measurements taken prior to backfill | 1 | 1 | 1 | 1 | 1 |
| Pressure test witnessed and passed by Council representative | 1 | 1 | 1 | 1 | J |
| | Tisk if satisfactory | Tick 2 adla/actory | Tick if subdisclory | TKK If satisfied any | Tick F satisfactory |
|--|-------------------------|-----------------------|------------------------|-------------------------|------------------------|
| Bacto sample taken and passed by Council representative PRIOR to connection to the live Council main | 1 | ~ | / | 1 | 1 |
| Connection to live main by Council (unless specifically approved) | * | 1 | 1 | 1 | ~ |

Main left charged at FAC level of _____ ppm

Δ P. HOPPER 7-4-21 Developer/Contractor's signature

Developer/Contractor's name (please print)

ONLINE CONTRACTORS

Date signed

Council Representative's name (please print)

Council Representative's signature

Date signed

WATER SUPPLY FINAL INSPECTION CHECKLIST

Waikato Local Authority

DEVELOPER/CONTRACTOR ONLINE CONTRACTORS LED

SITE/LOCATION GREEMAIL PARC - STAGE 15

SUB ____/ CONTRACT NO

| De | veloper to verify checklist prior to meeting | Developer Check | Council Rep Check |
|-----|---|--------------------|----------------------|
| 1. | All lines flushed out | | |
| 2. | All backfilling complete and reinstated | | |
| 3. | Water Supply Design Confirmation form completed | | |
| 4. | Water Supply Pipe Laying Checklist completed | | |
| 5. | Final as-built plans attached for site inspection | | |
| 6. | Connected to existing supply by Council (refer Water Supply Pipe Laying Checklist) | | |
| Sit | e Meeting: | | |
| 1. | Valves and hydrants correctly marked (Refer standard drawings for indicator posts) | | |
| 2. | FH pavement markers in place | | |
| 3. | Fire hydrant lids painted | | |
| 4. | Valve and FH boxes installed correctly (Refer standard drawings) | | |
| 5. | All valves checked on/off | | |
| 6. | Remedial work required? Yes (please list) | No | |

| Developer/Contractor's signature | Date signed |
|------------------------------------|--|
| Council Representative's signature | Date signed |
| | Developer/Contractor's signature Council Representative's signature |

| Sample ID | Sample Type | Site | Date | Date | Parameter Name | Result | Units | Lab | Status |
|------------|--------------------------------------|---------------------|------------|------------|---|--------------|-----------|----------------|--------|
| | | | Sampled | Received | | | | | |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | Heterotrophic Plate Count 35°C | <1 | cfu/mL | HCC Laboratory | е |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | Temperature On Arrival | 17.1 | ₅C | HCC Laboratory | е |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | E.coli Enumerated | <1 | MPN/100mL | HCC Laboratory | е |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | Total Coliforms Enumerated | <1 | MPN/100mL | HCC Laboratory | е |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | Time Sampled (client) | 06:30 | | Client | e |
| 2021000845 | Hamilton Reticulation Maintenance | 150 Greenhill west | 16/02/2021 | 16/02/2021 | Sampler (client) | Lance Parkes | | Client | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | Heterotrophic Plate Count 35°C | 5 | cfu/mL | HCC Laboratory | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | Temperature On Arrival | 16.8 | ōC | HCC Laboratory | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | E.coli Enumerated | <1 | MPN/100mL | HCC Laboratory | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | Total Coliforms Enumerated | <1 | MPN/100mL | HCC Laboratory | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | Time Sampled (client) | 06:35 | | Client | e |
| 2021000846 | Hamilton Reticulation Maintenance | 150 Greenhill North | 16/02/2021 | 16/02/2021 | Sampler (client) | Lance Parkes | | Client | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | Heterotrophic Plate Count 35 ^o C | <1 | cfu/mL | HCC Laboratory | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | Temperature On Arrival | 17.7 | ₽C | HCC Laboratory | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | E.coli Enumerated | <1 | MPN/100mL | HCC Laboratory | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | Total Coliforms Enumerated | <1 | MPN/100mL | HCC Laboratory | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | Time Sampled (client) | 06:45 | | Client | e |
| 2021000847 | Hamilton Reticulation Maintenance | 150 Greenhill East | 16/02/2021 | 16/02/2021 | Sampler (client) | Lance Parkes | | Client | e |

| Sample ID | Sample Type | Site | Date | Date | Parameter Name | Result | Units | Lab | Status |
|------------|--------------------------------------|-------------------|-----------|-----------|--------------------------------|--------------|-----------|----------------|--------|
| | | | Sampled | Received | | | | | |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | Heterotrophic Plate Count 35°C | 5 | cfu/mL | HCC Laboratory | е |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | Temperature On Arrival | 13.7 | ₅C | HCC Laboratory | ev |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | E.coli Enumerated | <1 | MPN/100mL | HCC Laboratory | ev |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | Total Coliforms Enumerated | <1 | MPN/100mL | HCC Laboratory | ev |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | Time Sampled (client) | 08:05 | | Client | ev |
| 2021002785 | Hamilton Reticulation Maintenance | Lot 398 Greenhill | 4/05/2021 | 4/05/2021 | Sampler (client) | Murray Giles | | Client | ev |

Test Certificate

| Date | 4 Feb 2021 |
|-----------------|-------------------|
| Project Name | Greenhill |
| Plan No. | Stage 15, 14 x 13 |
| Contractor | Online. |
| Contractors Rep | Tyler Maihi |
| HCC Officer | M. Gibs. |

Water Reticulation

Pressure Test – Water

171-PSI

or 1200kPa

for 15mins

| Test Name | PN Rating | Pipe Size | Start | Finish | Length | Result |
|-----------|-----------|-----------|-------|--------|--------|--------|
| PT. | 16. | 63- | 10.45 | (1.00 | 600m | Pass |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | ~ ~ ? |
|-------------------------------------|-------|
| Signature HCC Test Official | MAS |
| Signature Contractor Representative | RA |



APPENDIX 4

Wastewater Construction and QA Records

- Wastewater Pipe Laying Checklist F5.2
- Wastewater Manhole Checklist F5.3
- Wastewater trench Backfill Summary Checklist F5.4
- Wastewater Final Inspection Checklist F5.6
- Pressure Test Results
- CCTV submission email



F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879-M-1 | 3- | 501 | | | | | | | |
|---|----|------|---|-------|----|-------|-----|----|------|
| Name of certified drainlayer: 2 Million | H | 5 | n | + | ŧ. | cn ~0 | i | 00 | 2 |
| Location: Pipe length (MH To MH) | 11 | 10 5 | 2 | 10 50 | to | 16. | top | 6 | toto |

Pipe Laying Checks

| Trench Safety (d) Shield (e) Batter (f) Other | | | | | |
|--|-----|---|----|-----|-----|
| Pipe size, quality, manufacturer, on acceptable products list | 8 | 0 | 9 | Ð | B |
| - Surveyors name Online | | 8 | 00 | | 0 |
| Foundation support attached – Dynamic cone penetrometer (DCP) results – if under cutting required, note metreage and DCP results. | | | | | 6 d |
| Record daily level check and confirm on grade | Ø | Ø | B | 8 | Ø |
| Bedding type and surround material: 40/20 - Pitsand | P | 8 | Ø | 0 | 0 |
| Bulk Backfill material: Brown Rach | Ø | Ø | Ø | -12 | 8- |
| Bulk backfill compaction (DCP results from pipe to ground level attached) | Dr. | | D- | Ø | æ |
| Alignment control points identified | 0 | Ð | P | 8 | 0 |
| Pressure test witnessed and passed by Council representative. | 0 | 0 | | ₽ | Ø |

Service connections

| All service connections in place, taped, and staked | ď | D | 0 | | |
|---|---|---|---|---|---|
| As-built measurements taken, GPS located | Ø | B | 0 | B | |
| CCTV pipe inspection data and comments supplied | | B | | Ø | 8 |

West Construction

16/12/20.

Developer/Contractor

Date



F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879 | -M-13-5 | 01 | | | |
|------------------------------------|------------|--------|---------|--------|-----|
| Name of certified drainlayer: Zave | Miller - 2 | 55 | - 2 | 4N | لے |
| Location: Pipe length (MH To MH) | 10 to 1 | to - 5 | to or S | to 🖉 👻 | tog |

Pipe Laying Checks

| Trench Safety (d) Shield (e) Batter (f) Other | | | DR | | 000 |
|--|----------|------------|-----|----|------|
| Pipe size, quality, manufacturer, on acceptable products list | P | R | B | 2 | 0 |
| - Surveyors name Online | D | D D | D D | D | R L |
| Foundation support attached - Dynamic cone penetrometer (DCP) results - if under cutting required, note metreage and DCP results. | 60 | 6 | 0 | 0 | 5 |
| Record daily level check and confirm on grade | D | 0 | P/ | 0 | B |
| Bedding type and surround material: 40/20 - pHSmd | G | • | 2 | ₽ | or i |
| Bulk Backfill material: Brown Rock | e | _ 8 | Ø | 9 | Ø |
| Bulk backfill compaction (DCP results from pipe to ground level attached) | ø | æ | • | C/ | 0 |
| Alignment – control points identified | P | C | | V | Q |
| Pressure test witnessed and passed by Council representative. | ø | 8 | 9 | | 9 |

Service connections

| All service connections in place, taped, and staked | | 0 | 8 | 9 |
|---|---|---|---|---|
| As-built measurements taken, GPS located | | đ | | e |
| CCTV pipe inspection data and comments supplied | Ø | T | B | B |

West Construction

16/12/20

Developer/Contractor



F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879-M | -13 | -5 | 01 | | | | | |
|--|-----|------|-----|-------|-----|---|------|-----|
| Name of certified drainlayer: Zone Million | 2 | 5 | 2 | non | 2 | 2 | - 14 | - |
| Location: Pipe length (MH To MH) | 20 | 1007 | 20. | N Not | toj | 2 | 53 | tor |

Pipe Laying Checks

| Trench Safety (d) Shield (e) Batter | | | | | |
|--|---|------|-----|-----|-----|
| Pipe size, quality, manufacturer, on acceptable products list | D | 6 | B | 8 | ø |
| - Surveyors name ONVQ | D | 80 | 99 | 99 | |
| Foundation support attached - Dynamic cone penetrometer (DCP) results - if under cutting required, note metreage and DCP results. | B | 8 | a a | B D | 10 |
| Record daily level check and confirm on grade | | B | 0 | D | 2 |
| Bedding type and surround material: 40/20 - PitSand | ø | . 17 | ø | o | G |
| Bulk Backfill material: Brown Rocke | D | B | | · 🗗 | 0 |
| Bulk backfill compaction (DCP results from pipe to ground level attached) | P | P | G | - | Cr. |
| Alignment - control points identified | | 8 | P | B | R |
| Pressure test witnessed and passed by Council representative. | Q | 8 | C | J | - |

Service connections

| All service connections in place, taped, and staked | R | | | | d |
|---|---|---|---|---|---|
| As-built measurements taken, GPS located | | | 9 | D | d |
| CCTV pipe inspection data and comments supplied | | C | | | P |

West Construction

Developer/Contractor

Date

16/12/20



F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 2187 | 9-M-1 | 13-501 | - | | |
|--|--------|--------|-------|------|------|
| Name of certified drainlayer: 2000 | Miller | | | | |
| Location: Pipe length (MH To MH) | 18.5 | 18.4 | 18.3. | 18A1 | 18.2 |
| Manhole Construction Checklist | MH num | ber | | | |
| Manhole size, quality, manufacturer on acceptable materials list | B | P | 9 | Ø | Ø |
| Set out /orientation | ď | G | đ | ₽∕ | 6 |
| Sealing strip between risers | Ø | D | ď | ď | B |
| Benching | | | | | |
| Height | | C | e/ | D, | Ø |
| Alignment and cross section | B | | | | 0 |
| Half pipe lining (wastewater only) | D | | | | Ø |
| Step recesses (if applicable) | | | | | |
| Flexible joints | ø | | | | |
| Cutting and plastering of connections | 6 | D | Ø | Ø | e |
| Access details per drawings (e.g. manhole cover sited over steps). | Ø | 6 | đ | Ø | ٦ |
| Step irons including epoxy to outside recesses | Ø | Ø | Ø | | B |
| Bedding type and surround | Ø | | B | 0 | a |
| Bulk backfill compaction - Dynamic Cone Penetrometer (DCP) results attached | | Ø | Ø | ď | G |
| No debris in pipelines | ø | | | Ø | |
| Pipe invert fall through manhole | Ø | Ø | D' | ٢ | P |
| Pressure test witnessed and passed by Council representative. | | a | 0 | ø | đ |

West Construction

16/12/20

Developer/Contractor

Date



F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 2181 | 1-14-1 | 3-501 | | | |
|--|---------|-------|------|------|------|
| Name of certified drainlayer: Zave | Millicu | 1 | | | |
| Location: Pipe length (MH To MH) | 18.1 | 19.2 | 19.1 | 1941 | 20.2 |
| Manhole Construction Checklist | MH numt | ber | | | |
| Manhole size, quality, manufacturer on acceptable materials list | D | đ | ø | Ø | P |
| Set out /orientation | D | B | G | | D |
| Sealing strip between risers | | Ø | G | | D |
| Benching | | | _ | | _ |
| Height | 0 | Ø | o/ | 9 | |
| Alignment and cross section | | B | | P | 9 |
| Half pipe lining (wastewater only) | B | | 0 | 0 | B |
| Step recesses (if applicable) | | | | | |
| Flexible joints | B | | ₽/ | e l | 0 |
| Cutting and plastering of connections | Ø | | G | | D |
| Access details per drawings (e.g. manhole cover sited over steps). | o | e | | d | |
| Step irons including epoxy to outside recesses | B | B | a | đ | Ø |
| Bedding type and surround | D | D | ø | | B |
| Bulk backfill compaction - Dynamic Cone Penetrometer (DCP) results attached | | | | ø | б |
| No debris in pipelines | Ø | | | | B |
| Pipe invert fall through manhole | Ø | | | ٢ | ø |
| Pressure test witnessed and passed by Council representative. | Ø | | | ø | Ŗ |

West Construction

16/12/20

Developer/Contractor

Date



F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 2187 | 9-M. | -13- Se | AC | | |
|---|--------|---------|---------|------|-------|
| Name of certified drainlayer: 2and | Mille | 1 | | | |
| Location: Pipe length (MH To MH) | 201 | 21.3 | 21.2 | 21.1 | 22.2 |
| Manhole Construction Checklist | MH num | ber | 1.0.000 | | |
| Manhole size, quality, manufacturer on acceptable materials list | 8 | ø | Ð | ø | er |
| Set out /orientation | Ø | | | | e |
| Sealing strip between risers | B | Ø | | | P |
| Benching Height Alignment and cross section Half pipe lining (wastewater only) Step recesses (if applicable) Flexible joints Cutting and plastering of connections Access details per drawings (e.g.) | | 99999 | | | 99999 |
| manhole cover sited over steps). | | B | Q. | | G |
| Step irons including epoxy to outside recesses | B | o | ₽ | Dr. | ø |
| Bedding type and surround | D | D- | 0 | 9 | 0 |
| Bulk backfill compaction - Dynamic Cone Penetrometer (DCP) results attached | 9 | ·B | P | G | ø |
| No debris in pipelines | | 6 | | D/ | D |
| Pipe invert fall through manhole | | er | Ø | Ø | G |
| Pressure test witnessed and passed by Council representative. | đ | ۵/ | ۵ | Ø | đ |

West Construction

16/12/20

Developer/Contractor

Date



| Technician Carrying out Tests: | West Construction |
|--------------------------------|-------------------------|
| Location: | Greenhill Park 13,14,15 |
| Plan No(s): | 21872-M-13-SOL |
| From MH | 22.2-22.1 |
| Acceptance Criteria: | |
| Tests by: | West Construction |

(attached)

Analysis of Results

Trench backfill completed satisfactorily

10

Trench backfill requires remedial work as follows:

٠

West Construction

Developer/Contractor

16/12/20



| Technician Carrying out Tests: | West LorBaciston |
|--------------------------------|-------------------------------|
| Location: | Greening Park 13,14,15 |
| Plan No(s): | 21879-M-13-Sol |
| From MH | 19.2-20.2-21.3-21.2-21.1-20.1 |
| Acceptance Criteria: | CBR716 |
| Tests by: | West Construction |

(attached)

Analysis of Results

Trench backfill completed satisfactorily

10

.

Trench backfill requires remedial work as follows:

West Construction

Developer/Contractor

16/12/20



| Technician Carrying out Tests: | West Construction |
|--------------------------------|---|
| Location: | Greenhill Park 13,14715 |
| Plan No(s): | 21879-M-13-SOL |
| From MH | FET, 18.5, 18.4, 18.3, 18.2, 18.1, 18A1 |
| Acceptance Criteria: | CBR716 |
| Tests by: | West Construction |

(attached)

Analysis of Results

Trench backfill completed satisfactorily

10

Trench backfill requires remedial work as follows:

.

West Coastruction

Developer/Contractor

16/12/20



| Technician Carrying out Tests: | West Constitution |
|--------------------------------|---------------------|
| Location: | Greenhill 13,14,15 |
| Plan No(s): | 21879-M-13-SOL |
| From MH | 18.2-19.2.1741-19.1 |
| Acceptance Criteria: | CBRTIL |
| Tests by: | West Conduction |

(attached)

Analysis of Results

Trench backfill completed satisfactorily

10

Trench backfill requires remedial work as follows:

•

Ubst Construction

Developer/Contractor

16/12/20





TESTED BY:

West Construction

PROJECT NAME :

Greenhill Park Stages 13,14,15

| Sewer Chainage | C/L Trench | Remarks | | | |
|----------------|------------|-------------|-----------------------|--|--|
| FEI WWMH1.9 | 1ST LIFT | SECOND LIFT | | | |
| 10 | 24 | 21 | BROWN ROCK 1M TESTS | | |
| 20 | 26 | 19 | BROWN ROCK 1M TESTS | | |
| SSMH18.5 | | | | | |
| 10 | 21 | 17 | BROWN ROCK 1M TEST | | |
| 20 | 23 | 22 | BROWN ROCK 1M TEST | | |
| 30 | 27 | 29 | BROWN ROCK 1M TEST | | |
| 40 | 29 | 24 | BROWN ROCK 1M TEST | | |
| 50 | 22 | 21 | BROWN ROCK 1M TEST | | |
| 60 | 24 | 27 | BROWN ROCK 1M TEST | | |
| 70 | 28 | 20 | BROWN ROCK 1M TEST | | |
| 80 | 26 | 23 | BROWN ROCK 1M TEST | | |
| SSMH18.4 | | | | | |
| 10 | 27 | 24 | BROWN ROCK 1M TEST | | |
| 20 | 21 | 25 | BROWN ROCK 1M TEST | | |
| 30 | 24 | 20 | BROWN ROCK 1M TEST | | |
| 40 | 21 | 18 | BROWN ROCK 1M TEST | | |
| 50 | 27 | 24 | BROWN ROCK 1M TEST | | |
| 60 | 27 | 22 | BROWN ROCK 1M TEST | | |
| SSMH18 3 | 20 | | BROWN ROCK IN TEST | | |
| 10 | 22 | 18 | BROWN ROCK 1M TEST | | |
| 20 | 22 | 22 | BROWN ROCK 1M TEST | | |
| 30 | 27 | 20 | BROWN ROCK 1M TEST | | |
| 40 | 25 | 27 | BROWN BOCK 1M TEST | | |
| 40 | 25 | 27 | | | |
| 50 60 | 10 | 25 | | | |
| 70 | 21 | 22 | BROWN ROCK 1M TEST | | |
| SSMH18 2 | 21 | 20 | BROWN ROCK IN TEST | | |
| 10 | 20 | 24 | BROWN ROCK 1M TEST | | |
| 20 | 22 | 19 | BROWN ROCK 1M TEST | | |
| 30 | 24 | 29 | BROWN ROCK 1M TEST | | |
| 40 | 21 | 26 | BROWN ROCK 1M TEST | | |
| 50 | 21 | | BROWN ROCK 1M TEST | | |
| 60 | 23 | | BROWN ROCK 1M TEST | | |
| 70 | 25 | | BROWN ROCK 1M TEST | | |
| 80 | 21 | | BROWN ROCK 1M TEST | | |
| SSMH18.1 | | | | | |
| | | | | | |
| SSMH18.3 | | | | | |
| 10 | 23 | 21 | BROWN ROCK 1M TEST | | |
| 20 | 27 | 26 | BROWN ROCK 1M TEST | | |
| 30 | 21 | 25 | BROWN ROCK 1M TEST | | |
| 40 | 24 | | BROWN ROCK 1M TEST | | |
| 50 | 29 | | BROWN ROCK 1M TEST | | |
| 60 | 23 | | | | |
| | 24 | | DICOMIN NOCK TIM LEST | | |
| | | | | | |
| | | | | | |
| SSMH18.2 | | | | | |
| 10 | 22 | 19 | BROWN ROCK 1M TEST | | |
| 20 | 24 | 22 | BROWN ROCK 1M TEST | | |

| TESTED BY: | West Construction | | |
|-----------------|--------------------------------|----|-------------------------|
| PROJECT NAME : | Greenhill Park Stages 13,14,15 | | |
| 30 | 21 | 24 | BROWN ROCK 1M TESTS |
| 40 | 29 | 26 | BROWN ROCK 1M TESTS |
| 50 | 24 | 25 | BROWN ROCK 1M TESTS |
| 60 | 27 | 30 | BROWN ROCK 1M TESTS |
| SSMH19.2 | | | |
| 10 | 29 | 22 | BROWN ROCK 1M TESTS |
| 20 | 24 | 26 | BROWN ROCK 1M TESTS |
| 30 | 25 | 23 | BROWN ROCK 1M TESTS |
| 40 | 26 | 24 | BROWN ROCK 1M TESTS |
| 50 | 24 | | BROWN ROCK 1M TESTS |
| 60 | 21 | | BROWN ROCK 1M TESTS |
| 70 | 26 | | BROWN ROCK 1M TESTS |
| 80 | 28 | | BROWN ROCK 1M TESTS |
| 90 | 24 | | BROWN ROCK 1M TESTS |
| SSMH19.1 | | | |
| | | | |
| SSMH19.2 | | | |
| 10 | 22 | | BROWN ROCK 1M TESTS |
| SSMH19.A1 | | | |
| | | | |
| SSMH18.2 | | | |
| 10 | 21 | 26 | BROWN ROCK 1M TESTS |
| 20 | 23 | 22 | BROWN ROCK 1M TESTS |
| 30 | 24 | 24 | BROWN ROCK 1M TESTS |
| 40 | 27 | 36 | BROWN ROCK 1M TESTS |
| 50 | 19 | 25 | BROWN ROCK 1M TESTS |
| 60 | 21 | 24 | BROWN ROCK 1M TESTS |
| SSMH20.2 | | | |
| 10 | 19 | 23 | BROWN ROCK 1M TESTS |
| 20 | 20 | 24 | BROWN ROCK 1M TESTS |
| 30 | 24 | 21 | BROWN ROCK 1M TESTS |
| 40 | 26 | 22 | BROWN BOCK 1M TESTS |
| 50 | 20 | | BROWN BOCK 1M TESTS |
| 60 | 22 | | BROWN BOCK 1M TESTS |
| 70 | 20 | | BROWN BOCK 1M TESTS |
| 80 | 20 | | BROWN ROCK 1M TESTS |
| | | | |
| 55101120.1 | | | |
| SSWH2U 2 | | | |
| 10 | 25 | 19 | BROWN ROCK 1M TESTS |
| 20 | 24 | 19 | BROWN ROCK 1M TESTS |
| 20 | 23 | 26 | BROWN ROCK 1M TESTS |
| 30 | 26 | 20 | BROWN ROCK 1M TESTS |
| 4U CCN/UD1 D | 20 | 21 | DIG WIN NOCK TIVE LESTS |
| 55IVIH21.3 | | ٦E | |
| 10 | 20 | 20 | |
| | 24 | 25 | |
| 55IVIH21.2 | 24 | 74 | |
| 10 | 24 | 21 | |
| 20 | 25 | 23 | |
| 30 | 28 | 25 | BROWN ROCK 1M TESTS |
| 40 | 23 | 22 | BROWN ROCK 1M TESTS |
| 50 | 29 | | BROWN ROCK 1M TESTS |
| 60 | 21 | | BROWN ROCK 1M TESTS |

| TESTED BY: | West Construction | |
|----------------|--------------------------------|---------------------|
| PROJECT NAME : | Greenhill Park Stages 13,14,15 | |
| 70 | 25 | BROWN ROCK 1M TESTS |
| SSMH21.1 | | |
| | | |

F5.6 WASTEWATER PIPE NETWORK - FINAL INSPECTION CHECKLIST

| SUB / | Contract No: | | |
|---|----------------------------------|--------------------|----------------------|
| Developer to verify checklist prior | to meeting: | Developer Check | Council Rep Check |
| 6. All checklists completed (add for | m numbers) | G | |
| 7. All lines flushed out | | G | |
| All required CCTV inspections ca work completed. | arried out, reviewed and any re- | Ľ | |
| 9. All manholes checked (eg.infiltra | ition, plastering) | Ø | |
| 10. All backfilling complete and tidie | d up | G | |
| 11. Pressure test completed and with | nessed | E | |
| 12. Final as-built and operational pla | ans attached for site inspection | | |
| Site Meeting 13. Inspect all lines | | | |
| Inspect all manholes and catchp | its | | |
| Inspect SW inlet and outlet struc | tures | | |
| 16. Secondary flowpaths and detent | ion ponds | | |
| 17. Works on third party land comple | ated to satisfaction of owner | | |
| Wastewater pumping station dat (Form F5.7) attached | a complete and test results | | |
| 19. Overland flow to and from adjoin | ing properties not affected | | |
| 20. Remedial work required? | Yes (please list) |] No | |

Council

West Carstruction 9/3/21 Developer

Page 464 of 601



HCC WW testing Report

HCC WW testing Report

Complete

| Score | 0 % F | ailed items | | 0 | Actions 0 |
|--|--------------|-------------------|----------------------|-----|---|
| Location | | | | | Greenhill area M Stages 13, 14, 15, Chartwell, Hamilton 3281, New Zealand (-37.7490854, 175.2960279) |
| Conducted on | | | | | 16th Nov, 2020 11:22 AM NZDT |
| Test type | | | | | Wastewater pressure test |
| | | | | | MH pressure test - |
| Pipe type | | | | | 100mm - SN16 - uPVC |
| | | | | | 150mm - SN16 - uPVC |
| MH # tested | | | | | WWMH's 19.1, 19a.1, 19.2, 18a.1, 18.1, 18.2, 18.3, 18.4, 18.5, 20.1, 20.2, 21.1, 21.2, 21.3. |
| MH # to MH # | | | | | WWMH's 19a.1 to 19.2 to 19.1, 19.2 to 18.2 to 18.1, 18.2 to 18.3 to 18a.1, 18.2 to 20.2 to 20.1, 20.2 to 21.3 to 21.2 to 21.1, 18.3 to 18.4 to 18.5 to interceptor. |
| Tested by | | | | | |
| Matt from Wests Construction 16th Nov, 2020 11:52 AM NZDT | | | | | |
| Inspector/Auditor | | | | | Lance Parkes |
| Comments | | | | | |
| WWMH's tested - WWMH's 19.1, | 19a.1,1 | 9.2, 18a.1, 18.1, | 18.2, 18.3, 18.4, 18 | 8.5 | , 20.1, 20.2, 21.1, 21.2, 21.3. |

WW main tested - WWMH's 19a.1 to 19.2 to 19.1, 19.2 to 18.2 to 18.1, 18.2 to 18.3 to 18a.1, 18.2 to 20.2 to 20.1, 20.2 to 20.1, 20.2 to 20.1, 20.2 to 21.3 to 21.2 to 21.1, 18.3 to 18.4 to 18.5 to interceptor.

Photos

Pass/Fail

Pass

Barry Pearson

| From: | Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga)) depearson@sltga.co.nz> |
|--------------|--|
| Sent: | Friday, 30 April 2021 10:50 AM |
| To: | Martyn Smith (Hamilton City Council (Hamilton)) |
| Subject: | Document Issue No. 16 - Greenhill Park Stage 14 CCTV data |
| Attachments: | 19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 - Issue 16.pdf |
| | |

19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 Issue 16

Issued by: Barry Pearson (Shrimpton and Lipinski Limited Partnership) On: 30 Apr 2021

HCC Sub-division Team,

Greenhill Park Area 'M' RC 011.2018.00006632.001

Please find attached link to Greenhill Park – Stage 14 CCTV data of stormwater and wastewater for your review.

Note that we intend to submit the Engineering Works Clearance Report for Stage 14 on approx. the 20th May for Hamilton City Council review and approval.

Regards, Barry

Access the documents for this issue

Recipients:

Subdivison Hamilton City Council (Hamilton City Council (Hamilton)) Martyn Smith (Hamilton City Council (Hamilton))

BARRY PEARSON



36 Kereiti Street, Tauranga 3110

APPENDIX 5

Stormwater Construction and QA Records

- Stormwater Pipe Laying Checklist F4.11 F5.2
- Stormwater Manhole Checklist F4.12 F5.3
- Trench Backfill Compaction Test Summary F4.13
- Stormwater Backfill Compaction Test Results
- Stormwater Catchpit Checklist F4.14
- Stormwater Final Inspection Checklist F4.6
- CCTV submission email



F4.2 STORMWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): | N | | | | | | | | | |
|----------------------------------|-------|------|----|------|----|------|-----|------|----|------|
| Name of certified drainlayer: | and I | S | S | t | t | - | | _ | | 5 |
| Location: Pipe length (MH To MH) | 35 | to T | 19 | 10 5 | 19 | 10 5 | 19. | 10 9 | 10 | to J |

Pipe Laying Checks

| Trench Safety | | | | | |
|---|-----|-----|----|-----|---|
| (a) Shield (b) Batter (c) Other | | | | | |
| Pipe size, quality, manufacturer, on acceptable products list | | 9 | 9 | B | ø |
| - Surveyors name Online | E B | A A | 00 | 1 d | |
| Foundation support attached Dynamic cone penetrometer (DCP) results if under cutting required, note metreage and DCP results. | | | 2 | 0 | 4 |
| Record daily level check and confirm on grade | B | Ø | B | B | 0 |
| Bedding type and surround material: 40/20 - Sand | ø | Ð | Ø | 8 | 0 |
| Bulk Backfill material: Brown Rock | | | | | |
| Bulk backfill compaction (DCP results from pipe to ground level attached) | ø | 2 | | 9 | 0 |
| Alignment - control points identified | | P | 8 | 9 | Ø |
| Pressure test witnessed and passed by Council representative. | | | | | |



Service connections

| All service connections in place, taped, and staked | Ø | Ø | Ø | ď | |
|---|---|---|---|---|---|
| As-built measurements taken, GPS located | | Ø | 0 | 0 | B |
| CCTV pipe inspection data and comments supplied | | ø | ø | Ø | Ø |

West Construction

Developer/Contractor

14/2/20



F4.2 STORMWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): | | | | | | | | | | |
|----------------------------------|----|------|----|------|----|----|----|----|-------|----|
| Name of certified drainlayer: | 2 | | 1 | - | t | | Ч | ~ | 1 | |
| Location: Pipe length (MH To MH) | 21 | to a | 12 | 10 1 | 19 | to | 22 | 11 | 17 23 | to |

Pipe Laying Checks

| Trench Safety | | | | | |
|---|---|----|---|-----|---|
| (a) Shield(b) Batter(c) Other | | | | | |
| Pipe size, quality, manufacturer, on acceptable products list | P | ø | Ø | T | |
| - Surveyors name Online | 4 | 80 | | N N | |
| Foundation support attached Dynamic cone penetrometer (DCP) results if under cutting required, note metreage and DCP results. | | 0 | 0 | D D | |
| Record daily level check and confirm on grade | Ø | Ø | ø | | |
| Bedding type and surround material: 40/2 = -Send | ø | ۵ | ø | σ | |
| Bulk Backfill material: Brown Roch | | | D | | |
| Bulk backfill compaction (DCP results from pipe to ground level attached) | e | ø | P | a | 0 |
| Alignment - control points identified | Ø | B | Ø | P | |
| Pressure test witnessed and passed by Council representative. | | | | | |



Service connections

| All service connections in place, taped, and staked | | | Ø | G | |
|---|---|---|---|---|--|
| As-built measurements taken, GPS located | | Ø | | 5 | |
| CCTV pipe inspection data and comments supplied | 5 | đ | 6 | ď | |

Was Constaction

Developer/Contractor

14/12/20

F4.3 STORMWATER MANHOLE CHECKLIST

| Engineering Plan Num | ber(s) | | | | |
|--|-----------|---------------------|------|---------|------|
| Name of certified drain | layer: | | | | |
| Location: Pipe length (MH To MH) | Outlet 15 | 19,5 | 19.4 | 19,1 | 20.1 |
| Manhole Construction Checklist | MH number | | | | |
| Manhole size, quality, manufacturer on acceptable materials list | Ø | Þ. | ø | ø | Ø |
| Set out /orientation | Ø | 6 | D | 6 | Ø |
| Sealing strip between risers | Ø | 6 | d | đ | Ø |
| Benching Height alignment and cross section half pipe lining (wastewater only) Step recesses (if applicable) | 6060 | <mark>र्षत</mark> ः | øóoi | a a a a | 2000 |
| Flexible joints | Ø | 9 | ø | ø | Ø |
| Cutting and plastering of connections | u | | Ь | б | d |
| Access details per drawings (e.g. manhole cover sited over steps). | 6 | | ď | a | Ø |
| Step irons including epoxy to outside recesses | 6 | đ | Ø | G | ø |
| Bedding type and surround | | Ø | Ø | Ø | Ø |
| Bulk backfill compaction - Dynamic Cone Penetrometer (DCP) results attached | 6 | ď | ď | ď | |
| No debris in pipelines | Ø | Ø | | Ø | Ø |
| Pipe invert fall through manhole | 9 | D/ | D, | 9 | |

West Consactain

Developer/Contractor

14/12/20 ,

Date



F4.3 STORMWATER MANHOLE CHECKLIST

| Engineering Plan Numbe | er(s) | | | | |
|--|-----------|------|------|------------|------|
| Name of certified drainla | yer: | | | | |
| Location: Pipe length (MH To MH) | 15.1. | 21,2 | 21.1 | 22.2 | 22.1 |
| Manhole Construction Checklist | MH number | | | | |
| Manhole size, quality, manufacturer on acceptable materials list | ø | ø | ø | , | Ø |
| Set out /orientation | ø | ø | | Ø | d |
| Sealing strip between risers | Ø | | 6 | | d |
| Benching Height alignment and cross section half pipe lining (wastewater only) Step recesses (if applicable) | 8860 | бøб(| 000 | øøo | ත්රය |
| Flexible joints | Ø | | Ø | Ø | 0 |
| Cutting and plastering of connections | Ø | Ø | Ø | Ø | Ø |
| Access details per drawings (e.g. manhole cover sited over steps). | ø | Ø | ø | ٦ <u>۶</u> | ø |
| Step irons including epoxy to outside recesses | Ø | D | ø | Ø | B |
| Bedding type and surround | Ø | P | Ø | Ø | D |
| Bulk backfill compaction - Dynamic Cone Penetrometer (DCP) results attached | q | ø | Ø | Ø | ø |
| No debris in pipelines | B | Ø | Ø | Ø | đ |
| Pipe invert fall through manhole | ۵ | | G | Ø | ī |

Walt Construction

Developer/Contractor

20 14/12

Date



(attach individual test reports)

Technician Carrying out Tests Wast Construction Location: Grenhull Park Stage 13, 14, 15 Plan No(s): 71879-M-13-501 From MH 19.4-22.2-22.1 to MH Acceptance Criteria: (BR)16 Tests by: West Construction (attached)

Analysis of Results

Trench backfill completed satisfactorily or as follows:

Trench backfill requires remedial work

Wet Costruter

Developer/Contractor

Date 14/120



Page 374 of 601

(attach individual test reports)

| West Constructs | Carrying | out | | Tests |
|--|----------------------------|-------------|-----------------------|-----------|
| Location: Greenhil | Park St | age 13-11 | 4-15 | |
| Plan No(s): 21879 - | M- 13- | 501 | | |
| From MH15.2 - | 15.1 | to MH | | |
| Acceptance Criteria: (Br | 2715 | | | |
| Tests by: West-loss | Kadler | | | (attached |
| Analysis of Resul | ts | | | |
| Trench backfill completed as follows: | d satisfactorily <u>or</u> | Trench back | fill requires remedia | al work |

West Costantion

Developer/Contractor

14/12/20 Date

UPDATED MAY 2018

i)

(attach individual test reports)

Technician Carrying out Tests West Construction 2011 Location: Greenhill Park Stage 13,14,15 Plan No(s): 21879 - M- 13- 501 From MH 19.1-21.2-21.1 to MH Acceptance Criteria: CBR >16

Tests by: Wet Construction

Analysis of Results

as follows:

Trench backfill completed satisfactorily or Trench backfill requires remedial work

Construction

Developer/Contractor

Date 14/12/20



(attached)

Page 374 of 601

(attach individual test reports)

Technician Carrying out Tests vest Construction 2011 Location: Greenhill Pale Stage 13, 14, 15 Plan No(s): 21877-M-13-501 From MH 19.4-19.1-20.1 to MH Acceptance Criteria: CBR > 16 Tests by: Ubc) Constantion (attached)

Analysis of Results

Trench backfill completed satisfactorily or as follows:

Trench backfill requires remedial work

West Constantion

Developer/Contractor

Date 14/12/20





| ESTED BY: | West Construction | |
|---------------|--------------------------------|-----------------------|
| ROJECT NAME : | Greenhill Park Stages 13,14,15 | |
| Chainage | C/L Trench(CIV VALUES) | Remarks |
| SWMH 19.5 | 1ST LIFT | Kemarks |
| 10 | NA | BERM |
| 20 | NA | BERM |
| 30 | 21 | BROWN ROCK 1M TESTS |
| 40 | 23 | BROWN ROCK 1M TESTS |
| SWMH 19.4 | | |
| 10 | 19 | BROWN ROCK 1M TESTS |
| 20 | 23 | BROWN ROCK 1M TESTS |
| 30 | 21 | BROWN ROCK 1M TESTS |
| 40 | 25 | BROWN ROCK 1M TESTS |
| 50 | 26 | BROWN ROCK 1M TESTS |
| 60 | 24 | BROWN ROCK 1M TESTS |
| 70 | 21 | BROWN ROCK 1M TESTS |
| SWMH 22.2 | | |
| 10 | 25 | BROWN ROCK 1M TESTS |
| 20 | 26 | BROWN ROCK 1M TESTS |
| 30 | 24 | BROWN ROCK 1M TESTS |
| 40 | 17 | BROWN ROCK 1M TESTS |
| 50 | 24 | BROWN ROCK 1M TESTS |
| SWMH 22.1 | | |
| | | |
| SWMH 19 4 | | |
| 10 | 19 | BROWN ROCK 1M TESTS |
| 20 | 20 | BROWN ROCK 1M TESTS |
| 30 | 23 | BROWN ROCK 1M TESTS |
| 40 | 24 | BROWN ROCK 1M TESTS |
| 40 50 | 24 | BROWN ROCK 1M TESTS |
| 60 | 25 | BROWN ROCK 1M TESTS |
| 70 | 23 | BROWN ROCK 1M TESTS |
| SWMH 19.1 | | |
| 10 | 24 | BROWN ROCK 1M TESTS |
| 20 | 29 | BROWN ROCK 1M TESTS |
| 30 | 27 | BROWN ROCK 1M TESTS |
| 40 | 23 | BROWN ROCK 1M TESTS |
| 50 | 24 | BROWN ROCK 1M TESTS |
| 60 | 28 | BROWN ROCK 1M TESTS |
| 70 | 21 | BROWN ROCK 1M TESTS |
| SWMH 21.2 | | |
| 10 | 30 | BROWN ROCK 1M TESTS |
| 20 | 25 | BROWN ROCK 1M TESTS |
| 30 | 26 | BROWN ROCK 1M TESTS |
| 40 | 22 | BROWN ROCK 1M TESTS |
| SWMH 21.1 | | |
| | | |
| SWMH 19.1 | | |
| 10 | 27 | BROWN ROCK 1M TESTS |
| 20 | 27 | BROWN ROCK 1M TESTS |
| 30 | 19 | BROWN ROCK 1M TESTS |
| <u> </u> | 24 | BROWN ROCK 1M TESTS |
| 40 E0 | 27 | |
| 50 | 23 | |
| 70 | 24 | |
| /U | 22 | |
| | 24 | DRUWIN RUCK INI IESIS |
| SWMH20.1 | | |
| | | |
| SWMH15.2EX | | |
| 20 | 21 | BROWN ROCK 1M TESTS |
| 30 | 23 | BROWN ROCK 1M TESTS |
| 40 | 24 | BROWN ROCK 1M TESTS |
| | | |
| 50 | 21 | BROWN ROCK 1M TESTS |

F4.5 STORMWATER CATCHPIT CHECKLIST

| Location: | 117 | 118 | 119 | 114 | 115 | |
|-----------|-----|-----|-----|-----|-----|--|

Catchpit Construction Checklist

| Catchpit , type, size, quality, accepted material checked | | Ø | G | Ø | -0 |
|--|---|----|----|---|----|
| Set out /orientation | | Q. | Ø | P | ₽ |
| Location checked | ø | Ø | Ø | 0 | 2 |
| Depth of sump below outlet correct | Ø | Ø | G | 0 | Ø |
| Cutting and plastering of outlet connection | B | 5 | Ø | đ | Ŗ |
| Floating debris baffle installed correctly | đ | 5 | G | Ø | 5 |
| Backfill compaction around pit checked | 6 | | | | đ |
| Seating and plastering of surround and grate to sump barrel | đ | ٢ | | a | 0 |
| All silt and debris removed from sump | Ø | 9 | □/ | - | Ð |

West Constanction

Developer/Contractor

14/12/20



SECTION 4 -STORMWATER

F4.5 STORMWATER CATCHPIT CHECKLIST

| Location: | (07 | 108 | 087 | 101 | 109 |
|-----------|-----|-----|-----------|-----|-----|
| | | Cat | chpit Num | ber | |

Catchpit Construction Checklist

| Catchpit , type, size, quality, accepted material checked | C | P | Ø | ø | ø |
|--|---|---|---|---|---|
| Set out /orientation | e | e | 6 | ۵ | 6 |
| Location checked | Ø | | | | ø |
| Depth of sump below outlet correct | C | | D | P | Ø |
| Cutting and plastering of outlet connection | 6 | | B | | Ø |
| Floating debris baffle installed correctly | Ø | d | Ø | đ | ø |
| Backfill compaction around pit checked | | Ø | Ø | Ø | P |
| Seating and plastering of surround and grate to sump barrel | ď | ø | đ | | P |
| All silt and debris removed from sump | 6 | 9 | | ø | 9 |

West Collaction

Developer/Contractor

14/12/20-


F4.5 STORMWATER CATCHPIT CHECKLIST

| Location: | 116 | 112 | 113 | 111 | 110 |
|-----------|-----|-----|------------|-----|-----|
| | | Cat | tchpit Num | ber | |

Catchpit Construction Checklist

| Catchpit , type, size, quality, accepted material checked | e | Ø | R | ø | P |
|--|---|---|---|---|---|
| Set out /orientation | | Ø | Ø | Ø | 5 |
| Location checked | Ø | | D | | d |
| Depth of sump below outlet correct | Ø | | B | P | Ø |
| Cutting and plastering of outlet connection | Ø | | d | Ø | |
| Floating debris baffle installed correctly | Ø | | 2 | | б |
| Backfill compaction around pit checked | Ø | | Ø | œ | ę |
| Seating and plastering of surround and grate to sump barrel | ø | R | Ø | ď | 5 |
| All silt and debris removed from sump | Ø | ¢ | Ø | Ø | a |

West Construction

Developer/Contractor

14/12/20

Date



F4.6 STORMWATER PIPE NETWORK - FINAL INSPECTION CHECKLIST

| Site/Location: Greenhill | Parke | Stoges | 13,14,15 | |
|----------------------------|-----------|------------|----------|--|
| Developer/Contractor: West | (onstruct | Ion | | |
| SUB/ | Cor | ntract No: | | |

| STATISTICS. INC. | All provides | 10.1070 | THE A 1 | P. L. P. P |
|------------------|--------------|---------|---------|------------|
| PERCENT AND | | INK 9 | - T A | N.M. 74. 1 |
| C. P. Sherrister | 10.0er (1) | 1.0.00 | | HU. N.Y. |

| De | veloper to verify checklist prior to meeting: | Developer Check | Council Rep Check |
|-----|--|--------------------|----------------------|
| 1. | All relevant stormwater checklists completed | Ø | |
| 2. | All lines flushed out | e | |
| 3. | All required CCTV inspections carried out, reviewed and any re- work completed. | Ø | D |
| 4. | All manholes checked (eg.infiltration, plastering) | Ø | |
| 5. | All backfilling complete and tidied up | Ø | |
| 6. | Final as-built and operational plans attached for site inspection | | |
| SIT | E MEETING | | |
| 1. | Inspect all lines | | |
| 2. | inspect all manholes and catchpits | | |
| 3. | Works on third party land completed to satisfaction of owner | | |
| 4. | Overland flow to and from adjoining properties not affected | | |
| 5. | Remedial work required? Yes (please list) | □ No | |

Ukor Construction Developer Date 9/3/21

Council

Counc

Date.....



Barry Pearson

| From: | Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga)) depearson@sltga.co.nz> |
|--------------|--|
| Sent: | Friday, 30 April 2021 10:50 AM |
| To: | Martyn Smith (Hamilton City Council (Hamilton)) |
| Subject: | Document Issue No. 16 - Greenhill Park Stage 14 CCTV data |
| Attachments: | 19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 - Issue 16.pdf |
| | |

19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 Issue 16

Issued by: Barry Pearson (Shrimpton and Lipinski Limited Partnership) On: 30 Apr 2021

HCC Sub-division Team,

Greenhill Park Area 'M' RC 011.2018.00006632.001

Please find attached link to Greenhill Park – Stage 14 CCTV data of stormwater and wastewater for your review.

Note that we intend to submit the Engineering Works Clearance Report for Stage 14 on approx. the 20th May for Hamilton City Council review and approval.

Regards, Barry

Access the documents for this issue

Recipients:

Subdivison Hamilton City Council (Hamilton City Council (Hamilton)) Martyn Smith (Hamilton City Council (Hamilton))

BARRY PEARSON



36 Kereiti Street, Tauranga 3110

APPENDIX 6

Landscaping Certifications

Landscaping final inspection form requested from HCC (Not Included)



APPENDIX 7

Network Utilities Certifications

- Ultrafast Fibre Completion Letter
- First Gas Completion Letter
- Street Light Product Warranty
- WEL Completion Letter
- Street light Suppliers Declaration of Conformity
- Streetlight Producer Statement
- Streetlight COC & ROI Certificates
- HCC Form Street Light RAMM Data





22nd April 2021

0800 342 735 into@ultrafast.co.nz

ultrafastfibre.co.nz

ACCEPTANCE BY ULTRAFAST FIBRE LIMITED AS TELECOMMUNICATIONS OPERATOR

Subdivision: Greenhill Park Ruakura Residential Stage 14 (33 Lots), Lot 702, DP 534481, Chartwell, Hamilton.

- Ultrafast Fibre Limited (UFF) confirms that UFF will be the telecommunications operator of the telecommunications reticulation in the proposed public roads for the Ruakura Residential Stage 9 [Greenhill Park] Hamilton, Subdivision by Chedworth Properties Ltd. (the "Subdivision") Lot 702, DP 534481, to provide network connections to Lot 375 through to Lot 406, and Lot 511 in the Subdivision (the "Reticulation").
- 2. The Reticulation is now installed in accordance with:
 - (a) the requirements and standards set by the Hamilton City Council and advised to UFF via the Council's website; and
 - (b) the requirements of the Telecommunications Act 2001 and all other applicable laws, regulations and codes (as amended).
- 3. The Reticulation has been installed by Broadspectrum Limited to UFF's satisfaction, for the specific subdivision lots detailed on the "final" Scheme Plan as attached, with UFF remaining the owner, operator and maintainer of the Reticulation.
- 4. The attached "final" Scheme Plan must match your submission to the Hamilton City Council and must have the UFF stamp of 'Approval' accompanied by sign-off. Any additional lots created after initial deployment of multi-duct/fibre infrastructure will be chargeable.
- 5. One or more retail service providers will be available to supply telecommunications services over the completed Reticulation when service is available, provided that UFF shall not be responsible if the retail service provider's offer to supply such telecommunications services or the number of such providers varies from time to time.

SIGNED for and on behalf of ULTRAFAST FIBRE LIMITED by:

Signature:

Name:

Russell Gibson

Date:

22nd April 2021





Firstgas

Completion Certificate

| To: | Chedworth Properties Limited |
|-------|------------------------------|
| From: | Paul Bird |
| Cc: | Barry Pearson |
| Date: | 7 April 2021 |

SUBJECT: Greenhill Park Subdivision – Stage 14 (First Gas Distribution Network)



MESSAGE:

This Completion Certificate confirms that the First Gas Distribution Network installed at the above-mentioned development, has been laid, tested and commissioned in accordance with First Gas Technical Standards and relevant Gas Regulations.

Regards

Paul Bird Distribution Accounts Manager - New Developments Firstgas First Gas | Level 6, Resimac House| 45 Johnston St | Wellington | 6011 DDI 04 979 5367 | M 027 531 0060 | <u>firstgas.co.nz</u>

Confidential



IBEX 10 Year Limited Warranty – Project Warranty

Date: 04-03-2021

Project: Greenhill Park, Stage 14

Ref: 7140-00

Issued To: Chedworth Properties Limited

Transfer Provision: Hamilton City Council

a) This limited warranty is provided by Ibex International limited ("Ibex") in relation to the following products;

Luminaire – Vizulo Mini Stork Lens21 (5 year warranty)

Column - 6m Tapered column with 'Milford' Outreach (10yr Warranty Black paint Finish)

b) Ibex warrants to the purchaser that it will deliver the product in new condition in the product's factory packaging. Further, the product will be free of defects in materials and/or workmanship for the warranty period stated.

c) Ibex has sole discretion as to whether any warranty claim shall be valid considering all factors including (without limitation) the operating conditions the product has endured and the overall performance of the product. this warranty is only valid when proof of purchase can be provided and if the product has been operating within New Zealand

d) The warranty period commences from the date of Ibex's invoice or the product's delivery date whichever is the earlier.

e) If Ibex determines that a warranty claim is valid, Ibex will at its sole discretion either refund the purchase price of the product, refund the current market cost of an alternative product, repair the product or replace the product. In case of the repair or replacement the replacement product may not necessary be an identical product but an improved version due to ongoing technological developments and/or supply of original components currently available.
f) Ibex reserve the right to recondition/refurbish any article that is subject to a warranty claim or replace parts with new or used parts in satisfaction of this warranty.

2 - Warranty Exclusions

a) This warranty excludes any costs incurred by the purchaser including (without limitation) equipment hire, labour charges, accommodation charges, transport charges and travel charges.b) This warranty does not apply to loss or damages to the product caused by one or more of the following:

• Negligence and/or incorrect handling of the product by the buyer, installer, service agent or any other party acting on behalf or for the buyer;

- Improper installation;
- Improper handling;

• the product not being installed or maintained as set out in the installation instruction guide for the product;

- Acts of nature , fire , vandalism;
- Civil disturbances;
- Damages caused by fall or collision
- Installation or operation under environmental conditions beyond the manufacturer's
- recommendations;
- Power surges;
- Electrical supply fluctuations or faults;

• Mechanical failures as a result of actions not considered by Ibex to be within the normal operating conditions of the product;



Improper service and/or maintenance work carried out by someone not considered by the Ibex as an approved service agent/facilitator; and/or

• any other situation and/or event or circumstance deemed by Ibex as sufficient to render this warranty void.

c) Notwithstanding any other provision of this warranty or any statute or rule of law, to the greatest extent possible Ibex shall have no liability for any costs, damages or other losses directly or indirectly attributable to failure of the product. Further, Ibex shall have no liability for any costs incurred by any party for any maintenance or remedial work.

3 - Product performance

a) Ibex retains the sole discretion to determine whether a product is defective.

b) This warranty shall apply only to the malfunction of products due to defects in material and or workmanship exceeding nominal failure rates. Unless otherwise stipulated in the product and application specifications provided by Ibex, the nominal failure rate for electronic operating devices and components such as LED's shall be set at 0.2% per 1000 operating hours. Furthermore a decrease in luminous flux of up to 0.6% per 1,000 operating hours and colour shift as per the LED Module /chip suppliers technical data information shall be considered normal and is not covered by this warranty.

c) In the event that LED modules/Chips are replaced, lighting properties may vary from the original product.

4 - Warranty Transfers

this warranty may not be transferred to any entity without either the express written consent of Ibex or this being explicitly stated in the cover notes of this document. Ibex may withhold such consent at its sole and absolute discretion.

5 - Warranty Terms and Conditions

a) In the event where a warranty is claimed on a product which is not faulty, Ibex reserves the right to seek compensation from the entity claiming on the warranty for all costs that have been incurred by Ibex including (without limitation) travel, accommodation, costs of access equipment, and third party service agents' costs.

b) The warranty terms are those specified in wiring in this warranty document only.

c) Ibex's warranty is a back-to-base warranty. Ibex shall bear no responsibility of any charges incurred by any entity for transport of the product to Ibex and/or from Ibex to the warranty claimant.

d) Labour and Service charge incurred by Ibex in repairing / refurbishing any product are not covered in this warranty.

e) The warranty shall be void if the product has been tampered with or parts replaced by personnel that have not be previously authorised by Ibex in writing.

Ibex reserves the right to modify this warranty at any time without prior notification and the new warranty terms shall be valid for all orders placed with the Ibex on or after the new issue date, from the date that the new warranty terms are posted on Ibex's website.



Checklist 8.1

WORK CLEARANCE FROM NETWORK OPERATORS

To: Planning Guidance Manager Hamilton City Council Date: 10 May 2021

Re: Chedworth Properties Ltd Subdivision Stage 14– Lots 328, 375-406 Greenhill Park, Hamilton

I hereby certify all of the required work in relation to the installation, commissioning and reinstatement of our network services have been satisfactorily completed in this development area.

As built plans have been completed.

Subdivision : Stage 14 Greenhill Park, Hamilton - 40060051

Developer's Name : Chedworth Properties Ltd

Contractor's Name :

(MRIfs-

or

Signed by :

on behalf of WEL Networks Ltd

Signed by :

on behalf of Natural Gas Corp of NZ

or

Signed by :

on behalf of Telecom NZ Ltd

(one form required from each network operator)



21 May 2021

Ref: 7140

PRODUCER STATEMENT FOR STREET LIGHTING

Project Greenhil, Park Area M Stage 14

Location: Carrs Road Hamilton

The lighting for this Project has been designed to comply with the New Zealand standard AS/NZS158.3.12020 for PR4 and PR5 using Perfectilite and AGI32 lighting design software and in comunition with the Hamilton City Council and RITS Code of Practice requirements

- Product The P Category luminaires are Mini Stork 4 LED Optic P (lens 21), 3000K, and the lighting columns and outreach arms are manufactured from steel which is hot dipped galvanised after fabrication and then coated with a 10 year warranty paint finish
- Lifetime The turn name have an economic life of 15-30 years where normal maintenance is carried out. The pole and outreach have an economic life of 40 years

Yours Faithfully IBEX INTERNATIONAL LIMITED

MERRITT STRICKETT Account Manager - Roadway M +64 31 220 I291 - T +64 9 915 I063 merritts % loexlighting.com IBEXLIGHTING.COM

Supplier's Declaration of Conformity (in accordance with ISO/IEC 17050-1)

3

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| Number: | 2692777034128 | |
|--------------------------------------|--|-------------------------|
| Issuer's Name: | lbex International Ltd. | |
| Issuer's Address: | PO BOX 9077 Greenton | |
| | Tauranga 3142 | |
| | | |
| | | |
| Object of the Declarat | tion: We declare that the items described are Electrically Electricity (Safety) Regulations 2010 Regulation 80. | Safe as required in the |
| | MINI STORK 2500LM LENS21 22W S-CAP 3000K BLA | СК |
| | | |
| | | |
| | | |
| The Object of the Deck documents: | aration described above is in conformity with the require | ements of the following |
| Document Number: | Title | Edition / Date of Issue |
| AS/NZS 3820 | Essential Safety Requirements For Electrical Equipment | 2009/AMD 1 |
| Additional information | 1 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Signed for and on behalf of: | ibex International Ltd. Tauranga | |
| * ·· | 1/ // | |
| Date: 4/03/2021 | Kingsley Hott | |
| | Kingsley Holt Supply Chain & Innovation Manager | |
| | | |



| nomeYWt.lwiVYo no | ome/Wt | XoUS d a.d Zmoi Ut <i>o</i> ml | | Wimi nUl | U .noYnUoYX.Zmo |
|---------------------|------------|--------------------------------|----------------|---|------------------------------|
| | | nt n - Sc | S- n | d/Y .hcabtd a | |
| | nldOW | iit ii 55 . | 5 11 | EJ:FB.VwohYcab.t@IHiUhYiY.t@ aoUZtml aoYYotml UwWehUIX(RDE tUwoUlaUE(CD | Chedworth (M |
| XoUSdalm@L oYxcomlL | b – | .LCLGBB.T .UE | XoUSl.V Law | l .ZoYYnbml Y.BJ BB.HE.HGH | Properties limited GREENHILL |
| 14 B ^s | | X LQABJADBQ | WbYWgYX.V Li W | @ @ | |



| | ECTRICAL C | CATE ID NO.: NWELCO | IPLIANCE & ELEC C1579 / electrical workers to certifi | TRICAL SAFETY CER | TIFICATE |
|---|---|---|--|--|------------------------|
| Location Details: | Subdivisio | n Area M - Stage 9 | the specified system of electronic dependence of the specified system of electronic de | trical supply. Park Hamilton # | 107 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | rtyn | Registration/Practis | E257490 | |
| Phone & email: | 5 | retimartyn@hotmail.com | | | |
| Name and registration of person(s) supervise | n number | | | | |
| Certificate of Com | pliance | | | | |
| Type of work: The prescribed electri | cal work is: | Addition | Alteration General | New work High-risk (Speci | fyk |
| Means of compliance | | Part 1 of AS/NZS 3 | 2000 Part 2 of AS | /NZ\$ 3000 | |
| Additional Standards | or electrical co | de of practice were req | uired: 🔳 No 🗌 Y | es (specify): | |
| Date or range of date | s that prescrib | ed electrical work under | taken: 2040/2821 | | |
| Contains fittings that | are safe to co | nnect to a power supply | ? 🔳 Ves | No No | |
| specify type of supply | system: 230V | Mains MEN | | | |
| The installation has a | n earthing sys | tem that is correctly rate | ed (where applicable) | Yes | No |
| Parts of the installati | on to which th | is certificate relates that | t are safe to connect t | to a power supply? | 11017 |
| 📓 All 🔲 Parts (spe | cify) | | | | |
| The work relies on m | anufacturers i | nstructions: | Yes | No No | |
| f yes - identify the instruct | ion manual includ | ling name, date and version. Al | so attach a copy of manufa | cturer's instructions to this cer | rtificate. |
| Or provide reference to re Identify: Manufacture's inst Link: | adily accessible el adiens attached, VIOL | ectronic format, og Internet fin U Slok Utik Brøher USD street krein | ik.) int. 2005/2019 | | |
| The work has been d | one in accorda | nce with a certified desi | ign: 🔳 Yes | No No | |
| If yes - identify the certifie | d design including | name, date and version. Also a | attach a copy of the certifie | d design to this certificate. | |
| Or provide reference to re | adity accessible of | ectronic format, eg Internet lin | k) | | |
| Identify: Ceriliel wsize alla Link: | het Realway Lighting | Pan (Krwing | | | |
| The work relies on a | Supplier Decla | ration of Conformity (SD | oc): Yes | No No | |
| If yes - identify the SDoC in | cluding name, dat | e and version OR EESS registra | tion. Also attach a copy of t | he SDoC to this certificate. | |
| (Or provide reference to re | adily accessible el | ectronic format, eg Internet lin | k.) | | |
| Identify: SDoC attached Link: | | | | | |
| The installation has been | n satisfactorily | tested in accordance with | the Electricity (Safety) R | egulations 2010 | No Yes |
| Description of Work | | | | Test Results (| provide values) |
| Install New Stre | et Column | with LED Head | | Polarity | |
| Install MEN Bos | and Main F | arth and Earth Stal | e Cad Welded | (Independent earth) | 200+ M 0hm |
| Connection -1 | ight Riek | | to, oed melded | Earth Continuity | 0.1 Obme |
| Mains Cable M | ains Install | ation by others | | Booding | 0.1 Ohms |
| Livened by othe | rs. | and a grant of the state | | Fault Loop impedance | Ohms |
| Literiou by only | | | | Other (specify) | |
| 3v signing this docum | ent I certify t | hat the completed presc | ribed electrical work | to which this Certificate | of Compliance |
| applies has been don | e lawfully and | safely, and the informa | tion in the certificate | is correct. | |
| rtifier's signature: | SAL | > | Date: | 20/02/2021 | |
| Electrical Safety (| ertificate | | | | |
| By signing this docu | ment I certify | that the installation, or | part of the installatio | on, to which this Electric | cal Safety Certificate |
| applies is connected | to a power su | pply and is safe to use. | | No. 10 sectors | |
| certifier's | | | Registr | ation/Practising | |
| Certifier's | | Cectificate | | connection Date: | |
| signature: | | Issue Date: | | Statistics power | |
| | and the second se | | Name and a state of the state o | THE REPORT OF A DESCRIPTION OF A DESCRIP | |

4

This Electrical Salary Cartificate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.

| | LECTRICAL CE FERENCE/CERTIFIC is form has been de | ATE ID No.: NWELCO | MPLIANCE & ELECT C1579 2 | TRICAL SAFETY CERT | TFICATE |
|---|--|--|---|--|-----------------------|
| Location Details: | Subdivision | n Area M - Stage 9 | to 15 Greenhill F | Park Hamilton # | 109 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Mar | tyn | Registration/Practis | E257490 | |
| Phone & email: Name and registratio of person(s) supervise | n number | elimartyn@hotmail.com | | | |
| Certificate of Com Type of work: The prescribed electri | pliance cal work is: | Addition | Alteration General | New work High-risk (soedf | à |
| Means of compliance Additional Standards Date or range of date Contains fittings that | or electrical cor s that prescribe are safe to con | Part 1 of AS/NZS de of practice were req d electrical work unde nect to a power supply | 3000 🔳 Part 2 of AS/ juired: 🔳 No 🗌 Ye rtaken: 20022001 /? 💽 Yes | /NZS 3000 es (specify): | |
| The installation has a Parts of the installation All Parts (spe The work relies on m | n earthing system: 2304 on to which this cify) anufacturers in | em that is correctly rat s certificate relates tha structions: | ed (where applicable) It are safe to connect to Yes | Yes A power supply? No | No |
| If yes – identify the instruct Or provide reference to re identify: Masshchari's mai Unle: | tion manual includir adily accessible elex scions attached. VIOLU | ng name, date and version. A ctronic format, eg Internet lin Son, Litte Brother LED street Unio | lso attach a copy of manufac sk.) ano. 2006/2019 | turer's itstructions to this cen | ificate. |
| The work has been do if yes – identify the certifie (Or provide reference to re identify: Certiled testion attain Unit: | one in accordan d design including n adily accessible elev theil Rontway Lighting P | nce with a certified designme, date and version. Also ctronic format, eg Internet lin ten dewig. | ign: Yes attach a copy of the cartified nk.) | No No this certificate. | |
| The work relies on a If yes - identify the SDoC in (Or provide reference to re identify: SDoC attached | Supplier Declara cluding name, date adily accessible elec | ation of Conformity (SE and version OR EESS registra ctronic format, eg Internet lir | DoC): Yes ition. Also attach a copy of th rk.] | No No No No No No No No No | |
| Unk: The installation has bee | o antisfactorily to | naturi in accordance with | the Electricity (Sefetul Be | egulations 2010 | le ElVes |
| Description of Work | i accaractoriny o | cases in accordance with | the needed function | Test Results (p | rovide values) |
| Install New Stre | et Column v ard Main Fa | with LED Head arth and Farth Stal | ke. Cad Welded | Polarity (Independent earth): | 200+ M 0hms |
| Connection - L | ight Risk | | | Earth Continuity: | 0.1 Ohms |
| Mains Cable, M | ains Installa | tion by others. | | Bonding: | 0.1 Ohms |
| Livened by othe | ers, | | | Fault Loop impedance | Ohms |
| | | | | Other (specify): | |
| By signing this docum applies has been don | e lawfully and | at the completed preso safely, and the informa | ribed electrical work t tion in the certificate | to which this Certificate is correct. | of Compliance |
| ertifier's signature: | Mas | | Date: | 20/02/2021 | |
| Electrical Safety, By signing this docus applies is connected Certifier's | Certificate ment I certify to to a power sup | hat the installation, or ply and is safe to use. | part of the installatio | n, to which this Electric | al Safety Certificate |
| 15.0.055.0.5 | | | The second se | THE REPORT OF TH | |
| Castillarda | | 6-48 - 4- | | ennestine Peter | |

This Electrical Salety Certilicate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004

| ∧ E | LECTRICAL C | ERTIFICATE OF CON | APLIANCE & ELECT | RICAL SAFETY CERT | TIFICATE |
|---|---|---|--|--|-------------------------|
| | FERENCE/CERTIFIC | ATE ID NO.: NWELCO | C15793 | | |
| | is form has been de et 2 of AS/N25 3000 | signed to be used by licensed are safe to be connected to t | electrical workers to certify the specified system of elect | that installations or Part instal trical supply. | lations under Part 1 of |
| Location Details: | Subdivision | n Area M - Stage 9 | to 15 Greenhill F | Park Hamilton # | 110 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Mar | rtyn | Registration/Practis | E257490 | |
| Phone & email: | ÿ | rlimartyn@hotmail.com | | | |
| Name and registratio of person(s) supervis | n number | | | | |
| Certificate of Con Type of work: The prescribed electr | ipliance | Addition | Alteration General | New work High-risk (Specify | vi |
| Means of compliance | R | Part 1 of AS/NZS 3 | 3000 🔳 Part 2 of AS/ | /NZS 3000 | |
| Additional Standards | or electrical co | de of practice were req | uired: 🔳 No 🗌 Y | es (specify): | |
| Date or range of date | s that prescribe | ed electrical work under | rtaken: 25622222 | D No. | |
| Specify type of suppl | v system: 230V | Mains MEN | n 🖻 ies | Land IVO | |
| The installation has a | in earthing syst | em that is correctly rat | ed (where applicable) | Yes | No |
| Parts of the installat | ion to which thi | s certificate relates that | t are safe to connect t | o a power supply? | |
| All 🗌 Parts (spi | ecify) | | | and the second sec | |
| The work relies on m | anufacturers in | structions: | Yes | No No | |
| If yes - identify the instruc | tion manual includi | ng name, date and version. Al | lso attach a copy of manufac | turer's instructions to this cert | tificate. |
| Or provide reference to re identify: Manufacture's inst | eadily accessible ele- ructors attached. VIOLU | ctronic format, eg Internet lin Stok Litte Brother LED sireet know | nk.) ave. 2010562019 | | |
| The work has been d | lone in accordar | nce with a certified desi | ign: 🔳 Yes | No No | |
| If yes - identify the certific | ed design including r | name, date and version. Also | attach a copy of the cartified | design to this certificate. | |
| Or provide reference to r | eadily accessible ele | ctronic format, eg Internet lin | sk.) | A BELLER AN WELL BOARD | |
| Identify: Certilet tesign ata Link- | ched. Baldwey Lighting P | lan drawing. | | | |
| The work relies on a | Supplier Declar | ation of Conformity (SC | DoC): Yes | No No | |
| If yes - identify the SDoC in (Or provide reference to re | cluding name, date cadily accessible ele | and version OR EESS registra ctronic format, eg Internet lir | tion. Also attach a copy of th w.) | he SDoC to this certificate. | |
| identify SDoC attacted | | | | | |
| Link: | an anti-factority a | nated in according on the | the Electricity (Colored P | egulations 2010 | |
| Description of Work | en satisfactorily t | ested in accordance with | the cleanizity (Swiety) in | Test Results (r | provide values) |
| Inotal New Circ | not Column | with LED Hood | | Polarity | |
| Install NEW SUR | ard Main Er | arth and Earth Stal | ke Cad Woldod | (Independent earth): | 200+ M ober |
| Connection | ight Rick | | no, odu welded | Farth Continuity | 0.1 Ohms |
| Mains Cable M | taine Inetalle | tion by others | | Bondine: | 0.1 Ohms |
| Livened by oth | ors | non by outers. | | Fault Loop impedance | Ohms |
| Erronou by our | 01.01 | | | Other (specify): | |
| By signing this docur | nent I certify th | at the completed press | ribed electrical work t | to which this Certificate | of Compliance |
| applies has been dor | ne lawfully and | safely, and the informa | tion in the certificate | is correct. | o okom pri jedani |
| ertifier's signature: | SAL | | Date: | 20/02/2021 | SS- |
| Electrical Safety | Certificate | | | | |
| By signing this docu | ment I certify t | hat the installation, or | part of the installatio | n, to which this Electric | al Safety Certificate |
| applies is connected | to a power sup | oply and is safe to use. | •••••••••••••••••••••••••••••••••••••• | | |
| Certifier's | an a star ea cart | | Registra | ation/Practising | |
| Certifier's | | Certificate | | ennection Date: | |
| signature: | | Issue Date: | × | | |
| The second se | TOMER CORY - THUS | S IS AN IMPORTANT DOCUM | ENT AND SHOULD BE RETAIL | NED FOR A MINIMUM OF 7 YE | ARS |

This Electrical Salety Contricute also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.

| | ECTRICAL CERTIFICA FERENCE/CERTIFICATE ID NO. Is form has been designed to be to 2 of AS/NZS 3000 are safe to b | NWELCO | MPLIANCE & ELE OC 1579 44 d electrical workers to cer the <u>specified</u> system of e | TIPy that installations or Pa electrical supply. | CERTIFICATE ert installations unde | r Part 1 or |
|--|--|--|---|---|-------------------------------------|-------------|
| Location Details: | Subdivision Area M | I - Stage § | 9 to 15 Greenhil | I Park Hamilton | #111 | |
| Contact Details: (Name and address) | | | | | | |
| Name of Electrical worker: | Yeti Martyn | | Registration/Prac licence number: | E25749 | 90 | |
| Phone & email: | yetimartyn@ho | omail.com | | | | |
| Name and registration of person(s) supervise | n number Nd: | | | | | |
| Certificate of Com Type of work: The prescribed electri | pliance Addi cal work is: Low r | tion risk | Alteration | n 📕 New wor I High-risk | k (Specify). | 1 |
| Means of compliance | Part | 1 of AS/NZS 3 | 3000 🔳 Part 2 of / | AS/NZS 3000 | | |
| Additional Standards | or electrical code of pract | ice were req | juired: 🔳 No 🗌 | Yes (specify): | | |
| Date or range of date | s that prescribed electrica | l work unde | rtaken: 2042/2021 | 3:07 | | |
| Contains fittings that | are safe to connect to a p | ower supply | A Yes | No No | | |
| Specify type of supply | y system: 230V Maina MEN | 1910 172 1730 | | | - | |
| The installation has a | n earthing system that is | correctly rat | ed (where applicable) | Yes | No No | |
| Parts of the installate | on to which this certificate | e relates tha | t are safe to connec | t to a power supply? | | |
| All 📋 Parts (spe | city) | | E Mark | [] 36 | | |
| f yes - identify the instruct | ion manual including page, date | and antion Al | 105 | facturer's instructions to 1 | this contrilicate | |
| Or provide reference to re- | adily accessible electronic formal | t, eg internet lin | sk.) | nacional s'enstruccions con | this certaicade. | |
| identify: Manufacturaris man | uctions attached. VICLU Stark Little Broth | ar LEE street jurier | ale, 2005/0019 | | | |
| Link: | | | | - | | |
| The work has been do | one in accordance with a d | certified desi | ign: 🔳 Yes | No No | 111 | |
| Or provide reference to re | adily accessible electronic format | t, eg internet lin | tk.) | ieo design to this continca | LØ. | |
| Identify: Certified design attac | hert Roadway Lighting Plan drawing. | | | | | |
| Link | | | | - | | |
| The work relies on a If yes - identify the SDoC in Or provide reference to re identify: 80xC analysis | Supplier Declaration of Co cluding name, date and version C adily accessible electronic format | nformity (SE DR EESS registra t, eg internet lin | DoC): II Yes tion. Also attach a copy o (k.) | The SDoC to this certification | te. | |
| Link: | | | | | | |
| The installation has bee | n satisfactorily tested in acco | ordance with t | the Electricity (Safety) | Regulations 2010 | No Ye | 5 |
| Description of Work | | | | Test Resi | ults (provide val | ues) |
| Install New Stre | et Column with LED | Head | | (Independent ea | th | |
| Install MEN Boa | ird, Main Earth and I | Earth Stak | ke, Cad Welded | Insulation resista | ince: 200+ | M Ohms |
| Connection - L | ight Risk | | | Earth Continuit | ty: 0.1 | Ohms |
| Mains Cable, M | ains Installation by c | others. | | Bonding: | 0.1 | Ohms |
| Livened by othe | rs. | | | Fault Loop imped | ance | Ohms |
| | | 20000000000000 | | Other (specify | a | |
| By signing this docum | ent I certify that the com | pleted presc | ribed electrical worl | k to which this Certif | ficate of Complia | ince |
| ipplies has been don | e lawfully and safely, and | the informa | tion in the certificat | e is correct. | | |
| rtifier's signature: 🛓 | JHH / | | Date | 81 20/02/2021 | | |
| Electrical Safety 6 | ertificate | | | | | |
| By signing this docur | nent I certify that the inst | tallation, or | part of the installat | ion, to which this Ele | ectrical Safety C | ertificate |
| applies is connected | to a power supply and is s | afe to use. | 2 (S. 18) | 10 10 10 P | | |
| Certifier's | | | Regis | tration/Practising | | |
| Cortifice's | 1 | Contillicato | licens | Connection Date: | | |
| signature: | | Issue Date: | | connection pate: | | |
| 111610 | OMER COPY - THIS IS AN IMPOR | TANT DOCUME | NT AND SHOULD BE BET | AINED FOR A MINIMUM (| DE 7 VEARS | |

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This Electrical Bahly Cartificate also confirms that the electrical work complies with the twitting code for the purposes of Section 19(1)(e) of the Building Act 2004.

| | LECINICAL | CERTIFICATE OF CON | MPLIANCE & ELECTRI | LAL JAPETT LEKT | IFICATE |
|---|---|--|--|--|---|
| | | NWELCO | C1579 5 |] | |
| | EFERENCE/CERTI | IFICATE ID NO.: | d electrical workers to cortify that | t installations or Part instal | lations under Part 1 or |
| | art 2 of AS/NZS 3 | 000 are safe to be connected to | the specified system of electrical | il supply, | interior de la contra de la con |
| Location Details: | Subdivisi | on Area M - Stage § | 9 to 15 Greenhill Par | rk Hamilton # | 12 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti M | artyn | Registration/Practising licence number: | E257490 | |
| Phone & email: | | yetimartyn@hotmail.com | | | |
| Name and registration | on number und: | | | | |
| Contificate of Cor | nnlianco | | | | |
| Type of work: The prescribed elect | rical work is: | Addition | Alteration General | New work High-risk (Specifi | vi |
| Manage of compliance | | Dert 1 of AS/N75 | 2000 Rod 2 of AS/NZ | 5 3000 | |
| Additional Standard | e: s or electrical | code of practice were rec | uired: No Vest | specify): | 2 |
| Date or range of dat | es that prescri | ibed electrical work unde | rtaken: 29/82/2521 | apress (17) | |
| Contains fittings that | t are safe to c | onnect to a power supply | y? I Yes [| No | |
| Specify type of supp | ly system: 230 | OV Mains MEN | | nore and and a | |
| The installation has | an earthing sy | stem that is correctly rat | ted (where applicable) | Ves | No |
| Parts of the installar | tion to which t | this certificate relates that | t are safe to connect to a | power supply? | |
| 📓 All 🔲 Parts (sp | recify) | | | | |
| The work relies on r | manufacturers | instructions: | Yes [| No | |
| f yes - identify the instru | ction manual incli | uding name, date and version. A | itso attach a copy of manufacture | er's instructions to this cert | oficate. |
| Or provide reference to r | readily accessible | electronic format, eg internet lin | nk.) | | |
| identify: Masufacturer's ins Link: | inuclients attached. VR | OLU Stork Little Brother LED street lunin | nave, 20/05/2019 | | |
| The work has been a | done in accore | dance with a certified des | ign: Ves | No | |
| If yes - Identify the certify | | and the second is she should be seen | | | |
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This Electrical Safety Centilicate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.

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| 101 | s form has been (et 2 of AS/NZS 10 | designed to be used by licensed 00 are safe to be connected to | d electrical workers to certify that the specified system of electrical | t installations or Part instal d supply. | lations under Part 1 or |
| Location Details: | Subdivisio | on Area M - Stage § | 9 to 15 Greenhill Pa | rk Hamilton # | 1/3 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | artyn | Registration/Practising licence number: | E257490 | |
| Phone & email: | 10 | yetimartyn@hotmail.com | | | |
| Name and registration of person(s) supervise | n number ed: | | | | |
| Certificate of Com Type of work: The prescribed electri | pliance | Addition | Alteration General | New work High-risk (Specify | d |
| Means of compliance Additional Standards | : or electrical c | Part 1 of AS/NZS | 3000 🔳 Part 2 of AS/NZ quired: 🔳 No 🗌 Yes (| specify): | |
| Date or range of date Contains fittings that | s that prescril are safe to co | bed electrical work unde onnect to a power supply | vrtaken: 24/52/2021 v? • Yes | No | |
| Specify type of suppl | y system: 230 | V Mains MEN | | | |
| The installation has a | in earthing sy | stem that is correctly rat | ted (where applicable) | Yes | No |
| Parts of the installati | on to which t | his certificate relates that | it are safe to connect to a | power supply? | |
| 🔳 All 🔲 Parts (spe | cify) | | | | |
| The work relies on m | anufacturers | instructions: | Yes | No | |
| If yes - identify the instruct | tion manual inclu | dirig name, date and version. A | lise attach a copy of manufacture | er's instructions to this cert | ificate. |
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This Electrical Safety Centificate also confirms that the electrical work complies with the building code for the purposes of Section 15(1)(e) of the Building Act 2004.

| | LECTRICAL SERENCE/CERTI is form has been rt 2 of AS/N25 30 | CERTIFICATE OF CON FICATE ID NO.: NWELCO designed to be used by licenses 1000 are aufe to be connected to | MPLIANCE & ELECTRI DC15797/44- d electrical workers to certify the the specified system of electric | at installations or Part instal | TIFICATE |
|--|---|--|--|--|---|
| Location Details: | Subdivisi | on Area M - Stage | 9 to 15 Greenhill Pa | rk Hamilton # | 114 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | artyn | Registration/Practising licence number: | ^s E257490 | |
| Phone & email: | | yetimartyn@hotmail.com | | | |
| Name and registratio of person(s) supervis | n number ed: | | | | |
| Certificate of Com | pliance | | | | |
| Type of work: The prescribed electr | ical work is: | Addition | Alteration General | New work High-risk (specifi | vi |
| Means of compliance | r | Part 1 of AS/NZS | 3000 Rart 2 of AS/N | 75 3000 | |
| Additional Standards | or electrical o | code of practice were rec | guired: No Yes | (specify): | |
| Date or range of date | s that prescri | bed electrical work unde | ertaken: avazzon | | |
| Contains fittings that | t are safe to c | onnect to a power suppl | y? 🔳 Yes | No No | |
| Specify type of suppl | y system: 230 | W Mains MEN | | | |
| The installation has a | an earthing sy | stem that is correctly rat | ted (where applicable) | Yes | No |
| Parts of the installati | ion to which t | his certificate relates that | at are safe to connect to a | power supply? | |
| All 🗌 Parts (spe | ecify) | | | | |
| The work relies on m | anufacturers | instructions: | Yes | No No | |
| If yes - identify the instruc | tion manual indu | ading name, date and version. A | Viso attach a copy of manufactur | rer's instructions to this cert | tiñcate. |
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This Electrical Salety Certificate also confirms that the electrical work complex with the building code for the purposes of Section 19(1)(e) of the Building Act 2004

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| | t 2 of AS/NZS 300 | esigned to be used by licensed to are safe to be connected to | the specified system of electric | at instantations or Part Insta- al supply. | labors under Part 1 of |
| Location Details: | Subdivisio | n Area M - Stage 9 |) to 15 Greenhill Pa | rk Hamilton # | 115 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | irtyn | Registration/Practising licence number: | ^в E257490 | |
| Phone & email: | | yetimartyn@hotmail.com | | | |
| Name and registration of person(s) supervise | number d: | | | | |
| Certificate of Com | pliance | THE REAL PROPERTY AND A | 145100200 | Sec. 25-274 | |
| Type of work: The prescribed electric | cal work is: | Addition | Alteration General | New work | à |
| Means of compliance: | ž. | Part 1 of AS/NZS | 3000 Part 2 of AS/N | ZS 3000 | |
| Additional Standards | or electrical co | ode of practice were req | uired: 🔳 No 🗌 Yes | (specify): | |
| Date or range of dates | that prescrib | ed electrical work unde | rtaken: 2012/2021 | | |
| Contains fittings that | are safe to co | nnect to a power supply | /? 🔳 Yes | No No | |
| specify type of supply | system: 230V | / Mains MEN | | | |
| The installation has an | n earthing sys | tem that is correctly rat | ed (where applicable) | Yes | No |
| Parts of the installatio | on to which th | is certificate relates tha | t are safe to connect to a | a power supply? | |
| 📕 All 🔲 Parts (spec | cify) | | | | |
| The work relies on ma | anufacturers i | nstructions: | Yes | No No | NT 25 |
| Fyes – identify the instruct | ion manual includ | ling name, date and version. A | iso atlach a copy of manufactur | er's instructions to this cert | uncate. |
| Identify: Manufacturers mails | sonry accessione er | U Stork Little Brother LED street kunnt | Hey 2005/2018 | | |
| Unk: | | 1946 - Ganvinson | | |] |
| The work has been do | one in accorda | nce with a certified des | ien: Wes | No | |
| | and in accorde | not with a certified des | igin 🔄 ites | | |
| f yes - identify the certified | f design including | name, date and version. Also | attach a copy of the certified de | esign to this certificate. | |
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| Fyes - identify the certifier (Or provide reference to re- lidentify: Certified testpointer Unk: The work relies on a S if yes - identify the SDoC inc (Or provide reference to re- lidentify: SDoC atomet Unk: The installation has been Description of Work: Install New Stree Install MEN Boa Connection - L Mains Cable, Ma Livened by othe By signing this docum applies has been done ertifier's signature: Electrical Safety, C By signing this docum applies is connected of Certifier's | design including adily accessible el net Roedway Lighting Supplier Decla cluding name, dat adily accessible el n satisfactorily et Column ard, Main E ight Risk ains Install rs. hent I certify the elawfully and certificate nent I certify to a power su | name, date and version. Also ectronic format, eg Internet lin Plen dowing ration of Conformity (SI e and version OR EESS registre ectronic format, eg Internet in tested in accordance with with LED Head arth and Earth Sta ation by others. hat the completed prese taafely, and the information paly and is safe to use. | attach a copy of the certified de (k) DoC): Yes tion. Also attach a copy of the S (c) the Electricity (Safety) Regu ke, Cad Welded ribed electrical work to tation in the certificate is Date: 2 part of the installation, Besterati | Interest and the second | No Yes provide values) 200+ M Ohms 0.1 Ohms 0.1 Ohms 0.1 Ohms of Compliance al Safety Certificate |
| If yes - identify the certifier (Or provide reference to re- lidentify: Certified assignation Unit: The work relies on a S of yes - identify the SDoC inc (Or provide reference to re- lidentify: SDeC atomet Unit: The installation has been Description of Work: Install New Stree Install MEN Boa Connection - L Mains Cable, Ma Livened by othe By signing this docum applies has been dome ertifier's signature: Electrical Safety, By signing this docum applies is connected Certifier's name: | design including adily accessible el net Roetway Liphing Supplier Decla cluding name, dat adily accessible el n satisfactorily et Column ard, Main E ight Risk ains Install rS. nent I certify the elawfully and certificate nent I certify to a power su | name, date and version. Also ectronic format, eg Internet lin Plen dawing. ration of Conformity (SI e and version OR EESS registro ectronic format, eg internet in tested in accordance with with LED Head arth and Earth Sta ation by others. hat the completed prese taafely, and the information but the installation, or apply and is safe to use. | Attach a copy of the certified de (k) DoC): Yes thon. Also attach a copy of the S (k) the Electricity (Safety) Regu ke, Cad Welded cribed electrical work to atton in the certificate is Date: 2 part of the installation, Registrati- licence nu | Interviewers and the sector of | al Safety Certificate |
| If yes - identify the certifier (Or provide reference to re- lidentify: Contact assign attac- Unk: The work relies on a S If yes - identify the SDoC inc (Or provide reference to re- lidentify: SDoC atoms Unk: The installation has been Description of Work: Install New Stre- Install MEN Boa Connection - L Mains Cable, Ma Livened by othe By signing this docum applies has been dom- ertifier's signature: Electrical Safety, C By signing this docum applies is connected Certifier's name: Certifier's | design including adily accessible el net Roetway Liphing Supplier Decla cluding name, dat adily accessible el n satisfactorily et Column ard, Main E ight Risk ains Install rs. pent I certify the elawfully and certificate nent I certify to a power su | name, date and version. Also ectronic format, eg Internet lin Plen drawing. ration of Conformity (SI e and version OR EESS registra ectronic format, eg internet in tested in accordance with with LED Head arth and Earth Sta ation by others. hat the completed press isafely, and the information bat the installation, or pply and is safe to use. | attach a copy of the certified de (k) DoC): Yes tion. Also attach a copy of the S (c) the Electricity (Safety) Regu ke, Cad Welded cribed electrical work to ation in the certificate is Date: 2 part of the installation, Registratio licence nu Com | Interesting to this certificate. | lo Yes provide values) 200+ M Ohms 0.1 Ohms 0.1 Ohms of Compliance |

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| | LECTRICAL FERENCE/CERT is form has been rt 2 of AS/N25 3 | CERTIFICATE OF COM IFICATE ID NO.: NWELCO designed to be used by license 000 are safe to be connected to | MPLIANCE & ELEC OC1579 9 d electrical workers to certif | TRICAL SAFETY CER | TIFICATE |
|---|---|---|---|---|------------------------|
| Location Details: | Subdivisi | ion Area M - Stage | 9 to 15 Greenhill | Park Hamilton # | + 116 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti M | artyn | Registration/Practi licence number: | E257490 | |
| Phone & email: | | yetimartyn@httmail.com | | | |
| Name and registratio of person(s) supervise | n number ed: | | | | |
| Certificate of Com Type of work: The prescribed electr | ipliance ical work is: | Addition | Alteration General | New work High-risk (Speci | lv1: |
| Means of compliance | | Part 1 of AS/NZS | 3000 🔳 Part 2 of AS | 5/N25 3000 | |
| Additional Standards | or electrical | code of practice were rec ibad electrical work unde | quired: No 1 | Yes (specify): | |
| Contains fittings that | are safe to o | connect to a power suppl | y? I Yes | No No | |
| specify type of suppl | y system: 23 | OV Mains MEN | | | |
| The installation has a | in earthing s | ystem that is correctly rat | ted (where applicable) | Yes | No |
| arts of the installati | ion to which | this certificate relates the | at are safe to connect | to a power supply? | |
| 📕 All 🔲 Parts (spe | cify) | | 100 | | |
| he work relies on m | anufacturers | instructions: | Yes | No No | |
| f yes – identify the instruc | tion manual ind | uding name, date and version. A | Vso attach a copy of manufa | acturer's instructions to this or | rtificate. |
| Or provide reference to re Identify: Merulacturo's inst Link: | sadily accessible ructure attached. W | electronic format, eg Internet li OLU Stok Litte Broher LED street lunio | nk.) nave. 20/05/2019 | | |
| The work has been d | one in accord | dance with a certified des | sign: 🔳 Yes | No No | |
| If yes - identify the certifie | d design includi | ng name, date and version. Also | attach a copy of the certifie | ed design to this certificate. | |
| Or provide reference to re | adily accessible | electronic format, eg Internet li | nk) | | |
| Identify: Certilist insignation | ched Roadway Light | ing Plain dorwing | | | |
| The work relies on a | Supplier Dec | laration of Conformity (S | DoC): Yes | No No | |
| If yes - identify the SDoC in (Or provide reference to re | cluding name, d adity accessible | late and version OR EESS registri electronic format, eg internet li | ation. Also attach a copy of ink.) | the SDoC to this certificate. | |
| Identify: SDoC anachod | | | | | |
| The installation has be | en satisfactori | ly tested in accordance with | the Electricity (Safety) P | Regulations 2010 | No Yes |
| Description of Work | G | | the second second second | Test Results (| provide values) |
| Install New Stre | et Colum | n with LED Head | | Polarity | |
| Install MEN Bo | ard Main | Earth and Earth Sta | ke Cad Welded | (Independent earth): | 200+ M Ohm |
| Connection - 1 | ight Risk | | 101 000 1101000 | Earth Continuity | 0.1 Ohms |
| Mains Cable M | lains Insta | llation by others | | Bonding: | 0.1 Ohms |
| Livened by othe | ers. | ination by oniora. | | Fault Loop impedance | Ohms |
| Errence by our | at de | 1 | | Other (specify) | |
| ay signing this docum | nent I certify | that the completed pres | cribed electrical work | to which this Certificate | of Compliance |
| applies has been don | e lawfully an | nd safely, and the inform | ation in the certificate | 20/02/2021 | |
| rtifier's signature: | the second se | 1-1-1- | . Pate | | |
| ertifier's signature: | kil | | | | |
| ertifier's signature: Electrical Safety By signing this docu | Certificate ment I certif | y that the installation, or | r part of the installation | on, to which this Electri | cal Safety Certificate |
| ertifier's signature: Electrical Safety By signing this docu applies is connected Certifier's | Certificate ment I certifi to a power s | y that the installation, or supply and is safe to use. | r part of the installati | on, to which this Electri | cal Safety Certificate |
| ertifier's signature: Electrical Safety By signing this docu applies is connected Certifier's name | Certificate ment certif to a power : | y that the installation, or supply and is safe to use. | r part of the installati | on, to which this Electri ration/Practising e number: | cal Safety Certificate |

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| Location Details: Contact Details: (Name and address) Name of Electrical worker: Phone & email: Name and registration | Subdivision A | \rea M - Stage 9 | to 15 Groophill De | as suppoy. | llations under Part 1 or |
|--|--|--|---|--|--|
| Contact Details: (Name and address) Name of Electrical worker: Phone & email: Name and registration | Yeti Martu | | no io Greennii Pa | irk Hamilton # | 1/7 |
| Name of Electrical worker: Phone & email: Name and registration | Yeti Marty | | | | |
| Phone & email: Name and registration | i ou marty | /n | Registration/Practisin licence number: | E257490 | |
| Name and registration | yetim | artyn@hotnail.com | | | |
| of person(s) supervise | n number :d: | | | | |
| Certificate of Com Type of work: The prescribed electri | pliance | Addition | Alteration General | New work High-risk (Specif | vì |
| Means of compliance Additional Standards | : or electrical code |] Part 1 of AS/NZS 3 of practice were req | 3000 🔳 Part 2 of AS/N uired: 🔳 No 🗌 Yes | ZS 3000 (specify): | |
| Date or range of date Contains fittings that | s that prescribed e are safe to conne | electrical work under ct to a power supply | rtaken: 200202821 /? III Yes | No No | |
| Specify type of supply | y system: 230V Mai | ns MEN | | 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - | |
| The installation has a | n earthing system | that is correctly rate | ed (where applicable) | 🔹 Yes 🗋 | No |
| Parts of the installation | on to which this co | ertificate relates that | t are safe to connect to a | a power supply? | |
| 📕 All 🗌 Parts (spe | cify) | | | | |
| The work relies on m | anufacturers instr | uctions: | Yes | No No | 14110 |
| If yes - identify the instruct | tion manual including n | same, date and version. Al | Iso attach a copy of manufactu | rer's instructions to this can | tificate. |
| (Or provide reference to re identify Marstacamia inter Link: | adily accessible electro uchina allached. VIOLU Slor | inic format, eg internet lin ik Lille Broher LED strettionin | ase, 2005/3019 | | |
| The work has been d | one in accordance | with a certified desi | ign: 🔳 Yes | No No | |
| If yes - identify the certifie | d design including nam | e, date and version. Also a | attach a copy of the certified d | esign to this certificate. | |
| IOr provide reference to re | adily accessible electro | unic format, eg Internet lin | nk) | COLORADO DE CONTRACTO | |
| Identify: Castiled design attain | thesi Roadway Lighting Plan d | tawing. | | | |
| The work relies on a | Supplier Declarati | on of Conformity (SI | DoCh: Yes | □ No | |
| IF yes - identify the SDoC in | cluding name, date and | d version OR EESS registra | tion. Also attach a copy of the | SDoC to this certificate. | |
| (Or provide reference to re | adily accessible electro | onic format, eg Internet lin | sk) | | |
| Identify: SDoC attached | | | | | |
| The installation has been | en satisfactorily test | ed in accordance with | the Electricity (Safety) Reg | ulations 2010 | No Yes |
| Description of Work | | | | Test Results (p | provide values) |
| Install New Stre | et Column wit | h LED Head | | Polarity | |
| | | h and Earth Stal | ke. Cad Welded | Insulation resistance | 200+ M Ohms |
| Install MEN Box | ard, Main Farth | the same start through the same second | | Earth Continuity: | 0.1 Ohms |
| Install MEN Boa | ard, Main Eart .ioht Risk | Correction of the second | | | 0.1 Ohms |
| Install MEN Boa Connection - L Mains Cable M | ard, Main Eart .ight Risk lains Installatic | on by others | | Bonding | |
| Install MEN Boa Connection - L Mains Cable, M | ard, Main Eart Ight Risk Iains Installatio | on by others. | | Bonding Fault Loop impedance | Ohms |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe | ard, Main Eart Light Risk lains Installatio ers. | on by others. | | Bonding: Fault Loop impedance Other (specify) | Ohms |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe | ard, Main Eart ight Risk lains Installations | on by others. | ribed electrical work to | Bonding: Fault Loop impedance Other (specify) which this Certificate | Ohms of Compliance |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum | ard, Main Eart ight Risk lains Installations rs. | on by others. | ribed electrical work to | Bonding: Fault Loop impedance. Other (specify): which this Certificate correct. | Ohms of Compliance |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum applies has been dom | ard, Main Eart ight Risk lains Installatio ers. nent I certify that e lawfully and saf | on by others. | ribed electrical work to tion in the certificate is | Bonding: Fault Loop impedance. Other (specify): which this Certificate correct. 0/02/2021 | Ohms of Compliance |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum applies has been dom ertifier's signature: | ard, Main Eart ight Risk lains Installations ars. nent I certify that re lawfully and safe 444 | on by others. the completed presc ely, and the informa | ribed electrical work to ition in the certificate is Date: | Bonding: Fault Loop impedance Other (specify): which this Certificate correct. 0/02/2021 | Ohms of Compliance |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum applies has been dom ertifier's signature: Electrical Safety/ By signing this docum | ard, Main Eart ight Risk lains Installations in the certify that relawfully and saf fertificate ment I certify that | the completed press ely, and the informa | ribed electrical work to ition in the certificate is Date: 2 | Booding: Fault Loop impedance. Other (specify): which this Certificate correct. 0/02/2021 to which this Electric | Ohms of Compliance |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum applies has been dom ertifier's signature: Electrical Safety, By signing this docum applies is connected | ard, Main Eart ight Risk lains Installations ent I certify that le lawfully and set and set and set ficate ment I certify that to a power supply | the completed press ely, and the informa the installation, or and is safe to use. | ribed electrical work to ition in the certificate is Date: 2 part of the installation, | Booding: Fault Loop Impedance Other (specify): which this Certificate correct. 0/02/2021 to which this Electric | Ohms of Compliance al Safety Certificate |
| Install MEN Bos Connection - L Mains Cable, M Livened by othe By signing this docum applies has been dom ertifier's signature; Electrical Safety, By signing this docum applies is connected Certifier's name; | ard, Main Eart ight Risk lains Installation ars. ment I certify that we lawfully and set and set artificate ment I certify that to a power supply | the completed press ely, and the informa the installation, or y and is safe to use. | part of the installation, Registrati | Booding: Fault Loop Impedance. Other (specify): which this Certificate correct. 0/02/2021 to which this Electric ion/Practising amber: | Ohms of Compliance al Safety Certificate |
| Install MEN Bos Connection - I Mains Cable, M Livened by othe By signing this docum applies has been dom ertifier's signature; Electrical Safety, By signing this docum applies is connected Certifier's name: Certifier's | ard, Main Eart ight Risk lains Installations rs. ment I certify that re lawfully and saf fertificate ment I certify that to a power supply | the completed press ely, and the informa the installation, or y and is safe to use. | part of the installation, | Booding: Fault Loop Impedance. Other (specify): which this Certificate correct. 0/02/2021 to which this Electric on/Practising amber: nection Date: | Ohms of Compliance |

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This Electrical Safety Certificate also confirms that the electrical work complete with the building code for the purposes of Section 15(1)(e) of the Building Act 2004.

| | LECTRICAL C EFERENCE/CERTIFI its form has been do int 2 of AS/NZS 300 | CATE ID NO.: NWELCO signed to be used by licensed are safe to be connected to | MPLIANCE & ELECTI C1579// electrical workers to certify t the specified system of electr | hat installations or Part installations | TIFICATE |
|--|--|---|---|--|-----------------------|
| Location Details: | Subdivisio | n Area M - Stage 9 | to 15 Greenhill P | ark Hamilton # | 113 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | rtyn | Registration/Practisie licence number: | E257490 | |
| Phone & email: | y | etimartyn@holmai.com | | | |
| Name and registration of person(s) supervise | ed: | | | | |
| Certificate of Con Type of work: The prescribed electronic | ical work is: | Addition Low risk | Alteration General | New work High-risk (specify) | ×1 |
| Means of compliance Additional Standards Date or range of date Contains fittings that | t or electrical co that prescrib t are safe to co | Part 1 of AS/N2S 3 de of practice were req ed electrical work under mect to a power supply | 8000 🔳 Part 2 of AS/f uired: 🔳 No 🗌 Ye rtaken: 2002000 ? 💽 Yes | NZS 3000 s (specify): | |
| Specify type of supp | y system: 230V | Mans MEN | | —) (2000) — | |
| The installation has | an earthing syst | tem that is correctly rat | ed (where applicable) | Yes | No |
| Parts of the installat | ion to which th | is certificate relates that | t are safe to connect to | a power supply? | |
| All Parts (sp | ecity) | structions | Var. | C No | |
| The work relies on m | tion manual induct | ISTRUCTIONS: | tes | INO uner's instructions to this cert | lificate |
| Or provide reference to r | eadily accessible ele | sctronic format, eg internet lin 2 Stok Lide Bother LED skort lunes | k.) an. 2006/2019 | | 1 |
| Link | 1.000.0000.0000 | | | | |
| The work has been o | lone in accorda | nce with a certified desi | ign: 🔳 Yes | No No | |
| If yes - identify the certific | ed design including | name, date and version. Also a schemolic formation internet list | attach a copy of the certified (| design to this certificate. | |
| identify: Catfiel desus ats | enter) Readway Lighting | Plan drawing. | 8.J | | |
| The work relies on a | Supplier Decla | ration of Conformity (SD | DoC): Yes | No No | |
| If yes - identify the SDoC i Or provide reference to r identify: SDoC intertwi | tcluding name, dati eadily accessible ek | e and version OR EESS registra ectronic format, eg internet lin | tion. Also attach a copy of the (k.) | SDoC to this certificate. | |
| Link | | | | | |
| The installation has be | en satisfactorily | tested in accordance with | the Electricity (Safety) Rep | gulations 2010 | to Yes |
| Description of Worl | C | | | Test Results (p | rovide values) |
| Install New Stre | et Column | with LED Head | N 10 10210-001 | (Independent earth): | |
| Install MEN Bo | ard, Main E | arth and Earth Stal | ke, Cad Welded | Insulation resistance: | 200+ M Ohms |
| Connection - | Light Risk | | | Earth Continuity: | 0.1 Ohms |
| Mains Cable, N | lains Installa | ation by others. | | Bonding: | 0.1 Ohms |
| Livened by oth | ers. | | | Fault Loop impedance | Ohms |
| 40 | | | | Other (specify) | |
| By signing this docur applies has been do | ment I certify the lawfully and | rat the completed preso safely, and the informa | ribed electrical work to tion in the certificate is | which this Certificate correct. | of Compliance |
| ertifier's signature: | 10112 | | Date: | 20/02/2021 | |
| Electrical Safety By signing this docu applies is connected Certifier's name: | Certificate ment I certify t I to a power su | that the installation, or pply and is safe to use. | part of the installation Registrat licence n | , to which this Electric tion/Practising umber: | al Safety Certificate |
| Certifier's | | Certificate | Co | nnection Date: | |
| signature: | | Issue Date: | | and a state of the | |
| cus | TOMER COPY - THI | S IS AN IMPORTANT DOCUME | ENT AND SHOULD BE RETAIN | ED FOR A MINIMUM OF 7 YE | ARS |

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This Electrical Salary Cartificate also continues that the electrical work complies with the building code for the purposes of Section 19(1)(r) of the Building Act 2004.

| | LECTRICAL CERTI FERENCE/CERTIFICATE I is form has been designed rt 2 of AS/NZS 3000 are 1 | FICATE OF CON D No.: NWELCO of to be used by licensed afe to be connected to | C1579/7_ electrical workers the specified syste | ELECTRIC to certify that m of electrical | CAL SAFETY C | ERTIFICATE | er Part 1 or |
|---|--|---|---|--|------------------------------|-----------------|--------------|
| Location Details: | Subdivision Ar | ea M - Stage 🤅 | 9 to 15 Gree | nhill Par | k Hamilton | #119 | |
| Contact Details: (Name and address) | | | | | | | |
| Name of Electrical worker: | Yeti Martyr | n | Registration | /Practising ber: | E257490 |) | |
| Phone & email: | yetimar | tyn@hotmail.com | | | | | |
| Name and registratio of person(s) supervise | n number ed: | | | | | | |
| Certificate of Com | pliance | | | | | | |
| Type of work: The prescribed electr | ical work is: | Addition Low risk | Aite Gen | ration eral | New work High-risk (s | pecify): | |
| Means of compliance | | Part 1 of AS/NZS | 3000 🔳 Part | 2 of AS/NZ | S 3000 | | |
| Additional Standards | or electrical code of | f practice were req | uired: 🔳 N | Yes (| specify): | | |
| Date or range of date | s that prescribed eld | ectrical work unde | rtaken: 2000200 | · · · · · · | | | |
| Contains fittings that | are safe to connect | to a power supply | /? | Yes [| No | | |
| Specify type of suppl | y system: 230V Maine | : MEN | | | | - | |
| The installation has a | n earthing system t | hat is correctly rat | ed (where appli | cable) | Yes | No No | |
| Parts of the installati | on to which this cer | tificate relates tha | t are safe to co | nnect to a | power supply? | | |
| All 📋 Parts spe | cify) | | | - | - | | |
| The work relies on m | anufacturers instru | ctions: | | Yes L | No | 222442 | |
| If yes - identify the instruct (Or organize reference to re- | tion manual including nar active accessible electroni | me, date and version. A | iso attach a copy o sk i | manufacture | e's instructions to the | is certificate. | |
| Identify: Mandoclure's inst | uctions attached. VIOLU Stock I | Little Boother LED street havin | utre, 20405(2019 | | | | |
| Link: | | | | | | | |
| The work has been d | one in accordance v | vith a certified des | ign: 🔳 | Yes [| No | | |
| If yes - identify the certifie | d design including name, | date and version. Also | attach a copy of th | e certified des | ign to this certificate | | |
| dentify Certified easier and | adily accessible electron | e normat, eg internet in | sk.) | | | | |
| Unk | | <u> </u> | | | | | |
| The work relies on a | Supplier Declaration | n of Conformity (SI | DoC): 🔳 | Yes [| No No | | |
| If yes - identify the SDoC in | cluding name, date and v | version OR EESS registra | ition. Also attach a | copy of the SI | OpC to this certificate | 63 | |
| (Or provide reference to ri | adily accessible electron | ic format, eg internet lir | nk.) | | | | |
| Link: | | | | | | | |
| The installation has been | m satisfactorily tested | I in accordance with | the Electricity (S | afety) Regul | lations 2010 | No Y | es |
| Description of Work | : | | | | Test Resul | ts (provide va | alues) |
| Install New Stre | et Column with | LED Head | | | Polarity Undependent part | hit | |
| Install MEN Boa | ard, Main Earth | and Earth Sta | ke, Cad We | Ided | Insulation resistan | cei 200+ | M Ohms |
| Connection - I | ight Risk | | | | Earth Continuity | 0.1 | Ohms |
| Mains Cable, M | ains Installation | h by others. | | | Bonding: | 0.1 | Ohms |
| Livened by othe | ers. | | | | Fault Loop impedat | nce | Ohms |
| C. C | | | | | Other (specify) | | |
| By signing this docur | nent I certify that th | e completed prese | cribed electrica | work to w | which this Certific | ate of Compl | iance |
| applies has been dor | e lawfully and safe | ly, and the informa | tion in the cer | tificate is c | orrect. | | |
| | 4112 | | | 20 | 02/2021 | | |
| ertifier's signature: | fut | | | Date: | | | |
| Electrical Safety | Certificate | 2011-00400-1 | 1922 | 1223323 | 1 | 1211220220 | 11112011 |
| By signing this docu | ment I certify that I | the installation, or | part of the in: | tallation, t | to which this Ele | ctrical Safety | Certificate |
| applies is connected | to a power supply a | and is safe to use. | 1 | Begintenti | | | |
| Certifier's | | | | licence num | nbert | | |
| Certifier's | | Cartificate | | Conn | ection Date: | | |
| | | CELUICATO | 1 | South | NO-MONTE APRILATE | | |
| signature: | | Issue Date: | | | Constant of the second | | |

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| | ECTRICAL ERENCE/CERT form has been t 2 of AS/N25 3 | CERTIFICATE OF COM IFICATE ID NO.: NWELCO designed to be used by licensed 000 are safe to be connected to | MPLIANCE & | rs to certify the | ICAL SAFETY C | CERTIFICAT | E Jer Part 1 or |
|--|--|--|---------------------------|-------------------------|--|-----------------|--------------------|
| Location Details: | Subdivisi | on Area M - Stage | 9 to 15 Gre | enhill Pa | rk Hamilton | #121 | |
| Contact Details: (Name and address) | | | | | | | |
| Name of Electrical worker: | Yeti M | artyn | Registratio | n/Practisinj nber: | E257490 | J | |
| hone & email: | | yetimartyn@hotmail.com | | | | 10 | |
| Name and registration of person(s) supervise | number d: | | | | | | |
| Certificate of Comp Type of work: The prescribed electric | pliance cal work is: | Addition | Alt Ge | eration neral | New work | ioecify): | |
| Aeans of compliance: Additional Standards (| or electrical | Part 1 of AS/NZS code of practice were rec | 3000 🔳 Par quired: 🔳 f | t 2 of AS/N No 🗌 Yes | ZS 3000 (specify): | | |
| Date or range of dates Contains fittings that | that prescri are safe to c | ibed electrical work unde connect to a power supply | ertaken: 200822 y? | Yes | No No | | |
| specify type of supply | system: 230 | W Mains MEN | | | | | |
| 'he installation has an | n earthing s | ystem that is correctly rat | ted (where app | ficable) | Yes | L No | |
| arts of the installatio | cifu) | this certificate relates that | it are sale to c | onnect to a | power supply: | | |
| he work relies on ma | anufacturers | instructions | | Yes | No. | | |
| yes identify the instructi | ion manual incl | uding name, date and version. A | lso attach a copy | of manufactur | er's instructions to th | is certificate. | |
| Or provide reference to rea | adily accessible | electronic format, eg Internet ili | nk.) | 00288620 | | | |
| Identify: Manufacturers instru | utions attached. Vi | OLU Stork Little Brother LED shoet haver | veni, 20/05/2019 | | | | |
| Link: The work has been de | una la second | dance with a castified doe | inn 🗐 | Vec | | | |
| ne work has been do | ine in accord | bance with a certified des | agn: envolt | tes he catilied de | sign to this certificate | | |
| Or provide reference to rea | adily accessible | electronic format, eg Internet li | nk.) | ne cercroco de | age of the contract | | |
| Identify: Certified design attest | hed RoutwayLight | ng Plan drawing. | 010 | | | | |
| Link: | | | - | | - | | |
| 'he work relies on a S | Supplier Dec | laration of Conformity (S | DoC): | Yes | L No | 221 | |
| r yes - identify the SDoC inc Or onvoide reference to re- | diluting name, d | ate and version OH EESS registra electronic format, on Internet II | ation. Also attach | a copy of the s | sLoc. to this certificati | ŧ. | |
| Identify: SDeC atasted | any accession | energenne annae, eg menner a | in.j | | | | |
| Link: | | | | | | | |
| he installation has been | n satisfactoril | y tested in accordance with | the Electricity | (Safety) Regu | lations 2010 | No I | /es |
| Description of Work: | | | | | Test Resu | lts (provide v | alues) |
| Install New Street | et Colum | n with LED Head | | | (ledependent earl | thic | |
| Install MEN Boa | rd, Main I | Earth and Earth Sta | ke, Cad W | elded | Insulation resistan | cei 2004 | M Ohms |
| Connection - L | ight Risk | | | | Earth Continuity | 0.1 | Ohms |
| Mains Cable, Ma | ains Insta | llation by others. | | | Bonding: | 0.1 | Ohms |
| Livened by othe | rs. | | | | Fault Loop impeda | nce | Ohms |
| 199 | | / | | | Other (specify) | t | |
| | ent I certify | that the completed press | cribed electric | al work to | which this Certifi | cate of Comp | liance |
| By signing this docum polies has been done | e lawfully an | | | | 0/02/2021 | | |
| By signing this docum applies has been done the signature of the signature | | 2 | | Date: | | | |
| By signing this docum applies has been dom ertifier's signature: Electrical Safety (C | e lawfully af | <u>e</u> " | 0.5.251.77 | Date: | | | |
| By signing this docum applies has been done rtifier's signature: Electrical Safety C By signing this docum | e lawfully af Certificate nent I certifi | y that the installation, or | part of the ir | Date: 🖄 | to which this Ele | ctrical Safety | Certificate |
| By signing this docum applies has been done rtifier's signature: Electrical Safety C By signing this docum applies is connected t | e lawfully af Certificate nent I certifi to a power s | y that the installation, or supply and is safe to use. | part of the ir | Date: 2 | to which this Ele | ctrical Safety | Certificate |
| By signing this docum applies has been done rtifier's signature: Electrical Safety C By signing this docum applies is connected to Certifier's | e lawfully af Certificate nent I certifi to a power s | y that the installation, or upply and is safe to use. | part of the ir | Date: 2 | to which this Ele | ctrical Safety | Certificate |
| By signing this docum applies has been done ertifier's signature: Electrical Safety C By signing this docum applies is connected to Certifier's name: | e lawfully of Certificate nent I certifi to a power s | y that the installation, or iupply and is safe to use. | part of the ir | Date: 2 | to which this Ele on/Practising mber: | ctrical Safety | Certificate |
| By signing this docum applies has been done ertifier's signature: Electrical Safety C By signing this docum applies is connected to Certifier's name: Certifier's signature: | e lawfully of Certificate nent I certifi to a power s | y that the installation, or supply and is safe to use. Certificate | part of the ir | Date: 2 | to which this Ele on/Practising mber: nection Date: | ctrical Safety | Certificate |

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This Electrical Safety Certificate also confirms that the electrical work complex with the building cade for the purposes of Socian 19(1)(a) of the Building Act 2004.

| | LECTRICAL C EFERENCE/CERTIFI vis form has been do int 2 of AS/NZS 300 | ERTIFICATE OF CON CATE ID NO.: NWELCO esigned to be used by licensed to are safe to be connected to | APLIANCE & ELECTR C1579/4- Helectrical workers to certify th the specified system of electric | RICAL SAFETY CERT | Ilations under Part 1 or |
|--|--|---|---|--|---|
| Location Details: | Subdivisio | n Area M - Stage 9 | eto 15 Greenhill Pa | ark Hamilton # | 122 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti Ma | rtyn | Registration/Practisin licence number: | E257490 | |
| Phone & email: | ly ly | vetimartyn@hotmail.com | | | |
| Name and registratio of person(s) supervis | n number ed: | | | | |
| Certificate of Com | npliance | (1 <u>02)</u> | 100 C | | |
| Type of work: The prescribed electr | ical work is: | Addition tow risk | Alteration General | New work High-risk (specified) | v: |
| Means of compliance | 8 | Part 1 of AS/NZS 3 | 3000 🔳 Part 2 of AS/N | ZS 3000 | |
| Additional Standards | or electrical co | de of practice were req | uired: 🔳 No 🗌 Yes | {specify}: | |
| Date or range of date | s that prescrib | ed electrical work under | rtaken: 2003/2021 | | |
| Contains fittings that | t are safe to con | nnect to a power supply | /? Yes | No No | |
| Specify type of suppl | y system: 230V | Mains MEN | | | |
| The installation has a | an earthing syst | tem that is correctly rate | ed (where applicable) | Yes | No |
| Parts of the installat | ion to which th | is certificate relates that | t are safe to connect to a | a power supply? | |
| 🎽 All 🗌 Parts (spr | ecify) | | | | |
| The work relies on m | sanufacturers in | nstructions: | Yes | No | |
| If yes - identify the instruc | tion manual includ | ing name, date and version. Al | so attach a copy of manufactu | rer's instructions to this cert | tificate. |
| (Or provide reference to ra Identify: Narutatawa's ins Unit: | radily accessible ex nucleys attached VICLI | Ktronic format, eg internet im U Stok Litle Brother LED sheet lunin | ek.) ek. 201552019 | | |
| The work has been d | lone in accorda | nce with a certified desi | ign: 🔳 Yes | No No | |
| If yes - identify the certific | od design including | name, date and version. Also a | attach a copy of the certified d | esign to this certificate. | |
| | radily accessible ele | sctronic format, eg Internet lin | й.) | | |
| (Or provide reference to n | | High chipalant | | | |
| (Or provide reference to n Identify: Centret cases and Unit: | iched. Positivay Lighting I | ran ganera. | | the second s | |
| (Or provide reference to r Identify: Centrel usion and Unk: The work relies on a If yes - identify the SDoC in (Or provide reference to re Identify: SDoC attaches | ched. Rootway Lighting I Supplier Declar Including name, data radily accessible ele | ration of Conformity (SE e and version OR EESS registrat ectronic format, eg internet lin | DoC): Yes tion. Also attach a copy of the : ik.) | ND SDoC to this certificate. | |
| (Or provide reference to n Identify: Cented using and Link: The work relies on a If yes - identify the SDoC in (Or provide reference to n Identify: SDoC attachus Link: | ched. Poetway Leging I Supplier Declar Including name, data radily accessible ele | ration of Conformity (SE e and version OR EESS registrat ectronic format, eg Internet lin | DoC): Yes tion. Also attach a copy of the k.) | ND SDoC to this certificate. | |
| (Or provide reference to r Identify: Connet onego and Unit: The work relies on a If yes - identify the SDoC in (Or provide reference to re Identify: SDoC anachan Unit: The installation has be | ched. Rootway Lighting I Supplier Declar including name, data radily accessible ele en satisfactorily t | ration of Conformity (SE e and version OR EESS registrat ectronic format, eg internet lin tested in accordance with t | DoC): The Yes tion. Also attach a copy of the tik.) | ND SDoC to this certificate. | ia Ves |
| Or provide reference to r Identify: Carinet using an Unk: The work relies on a f yes - identify the SDoC in Or provide reference to re Identify: SDoC attaches Unk: The installation has be Description of Work | ched. Poetway Lephing 1 Supplier Declar Including name, date radily accessible ele en satisfactorily 1 C | ration of Conformity (SE e and version OR EESS registrat ectronic format, eg Internet lin tested in accordance with t | DoC): Yes tion. Also attach a copy of the ik.) the Electricity (Safety) Regi | ND SDoC to this certificate. ulations 2010 | io Tyes rovide values) |
| Or provide reference to n Identify: Contract using an Unit: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC attachus Unit: The installation has be Description of Work Install New Street | chet PoetwayLighing I Supplier Declar Including name, data radily accessible ele en satisfactorily to eet Column | ration of Conformity (SE e and version OR EESS registral ectronic format, eg internet lin tested in accordance with t with LED Head | DoC): Yes tion. Also attach a copy of the ! ik.) the Electricity (Safety) Regi | ND SDoC to this certificate. | io TYes provide values) |
| Or provide reference to n Identify: Centeet maga an Unk: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC another Unk: The installation has be Description of Work Install New Stree Install MEN Boo | ched. Rootway Lighting I Supplier Declar including name, data readily accessible ele en satisfactorily to en satisfactorily to eet Column ard, Main Ea | ration of Conformity (SE e and version OR EESS registrat ectronic format, eg internet lin tested in accordance with t with LED Head arth and Earth Stal | DoC): I Yes tion. Also attach a copy of the t ik.) the Electricity (Safety) Regi ke, Cad Weided | ND SDoC to this certificate. | io Yes provide values) 200+ M Ohms |
| Or provide reference to n Identify: Centred onego and Unit: The work relies on a fryes - identify the SDoC in Or provide reference to n Identify: SDoC attaches Unit: The installation has bee Description of Work Install New Stree Install MEN Boo Connection - I | chet PostwayLighting Supplier Declar Including name, date radily accessible ele en satisfactority to c set Column ard, Main Ea Light Risk | ration of Conformity (SE e and version OR EESS registral ectronic format, eg Internet lin tested in accordance with t with LED Head arth and Earth Stal | DoC): Types tion: Also attach a copy of the t ik.) the Electricity (Safety) Regi ke, Cad Welded | ND SDoC to this certificate. ulations 2010 N Test Results (p Polarity (Independent earth): insulation resistance: Earth Continuity: | io Yes provide values) 200+ M Ohms 0,1 Ohms |
| Or provide reference to n Identify: Contract using an Unk: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC attachus Unk: The installation has be Description of Work Install New Stree Install MEN Bos Connection - I Mains Cable, N | en satisfactorily f en sat | ration of Conformity (SE e and version OR EESS registra ectronic format, eg Internet lin tested in accordance with t with LED Head arth and Earth Stat ation by others. | DoC): Types tion: Also attach a copy of the s ik.) the Electricity (Safety) Regi ke, Cad Weided | ND SDoC to this certificate. Uations 2010 N Test Results (p Polarity (Independent earth): Insulation resistance: Earth Continuity: Bonding: South ear laws down | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms 0,1 Ohms |
| Or provide reference to n Identify: Centret maga an Unk: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC another Unk: The installation has be Description of Work Install New Stree Install MEN Boo Connection - I Mains Cable, M Livened by other | en satisfactorily to construct of the satisfactoril | ration of Conformity (SE e and version OR EESS registra ectronic format, eg Internet lin tested in accordance with t with LED Head arth and Earth Stat ation by others. | DoC): Types tion. Also attach a copy of the t ik.) the Electricity (Safety) Regi ke, Cad Weided | ND SDoC to this certificate. Ulations 2010 N Test Results (p Polarity (Independent earth): Insulation resistance: Earth Continuity: Bonding: Fault Loop impedance | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms Ohms |
| Or provide reference to n Identify: Context onego an Unk: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC attaches Unk: The installation has be Description of Work Install New Stree Install MEN Bos Connection - I Mains Cable, N Livened by othe | chet PostwayLighting Supplier Declar Including name, data radily accessible ele en satisfactority to en satisfactority to eet Column ard, Main Ea Jight Risk fains Installa ars. | ration of Conformity (SE e and version OR EESS registral ectronic format, egintemet lin tested in accordance with t with LED Head arth and Earth Stat ation by others. | DoC): I Yes tion. Also attach a copy of the t ik.) the Electricity (Safety) Regi ke, Cad Welded | ND SDoC to this certificate. ulations 2010 N Test Results (p Polarity (Independent earth): Insulation resistance: Earth Continuity: Bonding: Fault Loop impedance Other (specify) | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms Ohms |
| Or provide reference to n Identify: Contract onego and Unk: The work relies on a fyes - identify the SDoC in Or provide reference to n Identify: SDoC anachair Unk: The installation has be Description of Work Install New Stree Install New Stree Install MEN Boo Connection - I Mains Cable, M Livened by othe By signing this docur | en satisfactorily t acid Rostway Lights acid grame, data addity accessible ele en satisfactorily t en satisfactorily t acid, Main Ea Light Risk lains Installa ars, nent I certify th re lawfully and | ration of Conformity (SE e and version OR EESS registra ectronic format, eg internet lin tested in accordance with t with LED Head arth and Earth Stat ation by others. | DoC): Types tion. Also attach a copy of the s ik.) the Electricity (Safety) Regi ke, Cad Weided | ND SDoC to this certificate. Uations 2010 N Test Results (p Polarity (Independent earth): Insulation resistance: Earth Continuity: Bonding: Fault Loop impedance Other (specify): which this Certificate correct. | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms 0hms 0hms |
| (Or provide reference to r Identify: Carified oneon an Unk: The work relies on a If yes - identify the SDoC in (Or provide reference to r Identify: SDoC attaches Unk: The installation has be Description of Work Install New Stree Install MEN Bos Connection - I Mains Cable, N Livened by othe By signing this docur applies has been dor ertifier's signature: | eted Poetway Lynny I Supplier Declar reduding name, date radily accessible ete en satisfactorily to eet Column ard, Main Ea Light Risk lains Installa ars. nent I certify th re lawfully and | ration of Conformity (SE e and version OR EESS registra ectronic format, eg internet lin tested in accordance with t with LED Head arth and Earth Stał ation by others. | DoC): Yes tion. Also attach a copy of the t ik.) the Electricity (Safety) Regi ke, Cad Welded ribed electrical work to tion in the certificate is Date; 2 | ND SDoC to this certificate. Ulations 2010 N Test Results (p Polarity (Independent earth): insulation resistance: Earth Continuity: Bonding: Fault Loop impedance Other (specify) which this Certificate correct. 0/02/2021 | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms Ohms of Compliance |
| (Or provide reference to n Identify: Cernied usean an Unk: The work relies on a If yes - identify the SDeC in (Or provide reference to n Identify: SDeC attaches Unk: The installation has be Description of Work Install New Stree Install New Stree Install MEN Boy Connection - I Mains Cable, N Livened by othe By signing this docur applies has been dor ertifier's signature: Electrical Safety By signing this docur | chet Poetwaytigning Supplier Declain including name, data radily accessible ele en satisfactority to cet Column and, Main Ea Light Risk lains Installa ars. ment I certify th re lawfully and Certificate ment I certify to | ration of Conformity (SE e and version OR EESS registra ectronic format, eg internet lin tested in accordance with t with LED Head arth and Earth Stal ation by others. | DoC): Yes tion. Also attach a copy of the s ik.) the Electricity (Safety) Reginance ke, Cad Welded ribed electrical work to tion in the certificate is Date; 2 part of the installation. | ND SDoC to this certificate. Ulations 2010 N Test Results (p Polarity (Independent earth): Insulation resistance: Earth Continuity: Bonding: Fault Loop impedance Other (specify): which this Certificate correct. 0/02/2021 to which this Electric | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms 0,1 Ohms of Compliance |
| (Or provide reference to r Identify: Contract one on an Unk: The work relies on a If yes - identify the SDoC in (Or provide reference to r Identify: SDoC anachas Unk: The installation has be Description of Work Install New Stree Install MEN Boy Connection - I Mains Cable, M Livened by othe By signing this docur applies has been dor ertifier's signature: Electrical Safety P By signing this docur applies is connected | supplier Declar supplier Declar aduly accessible ele- en satisfactorily to ard, Main Ea- light Risk lains Installa ars. ment I certify th te lawfully and Certificate ment I certify to to a power sur- | ration of Conformity (SE e and version OR EESS registra ectronic format, eg Internet lin tested in accordance with t with LED Head arth and Earth Stal ation by others. | DoC): Types tion. Also attach a copy of the s ik.) the Electricity (Safety) Reginance ke, Cad Weided ribed electrical work to tion in the certificate is Date: 2 part of the Installation, | ND SDoC to this certificate. Ulations 2010 N Test Results (p Polarity (Independent earth): Insulation restance: Earth Continuity: Bonding: Fault Loop impedance Other (specify) which this Certificate correct. 0/D2/2021 to which this Electricate | io Yes provide values) 200+ M Ohms 0,1 Ohms 0,1 Ohms of Compliance |
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This Electrical Safety Certificate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(o) of the Building Act 2004.

| ELECTRICAL CERTIFICATE OF COMPLIANCE & ELECT | RICAL SAFETY CERTIFI | CATE |
|---|--|---------------------------|
| NWELCOC1583 St | <u> </u> | |
| INCREMENCE/LECTIONAL ID NO.: 41. 1 Frank and 2012 1994 | hai esabilat ora ora for musika a | ani uunas P on Voe |
| Part 2 of ASJN25 30E0 are safe to be assured of the spacified system of each | wot supply | |
| Increasion Details: Subdivision Area M - Stage 9 to 15 Greenhill P | ark Hamilton # 47. | 3 |
| Contect Details: | | |
| [Name and address] | | |
| | | |
| worker: Yeti Martyn licence number: | ^{**} E257490 | |
| Phone & annall: [valenarity/Ficture / with a second state | | |
| Name and registration mother | | |
| of person(s) supervised: | | |
| Certificate of Compliance | ~~ | ···· |
| Type of work: 🗌 Addition 🔄 Alteration | New work | |
| The ateacribed electrical work is Low risk General | Iligh-rial: Jácosily | |
| | | |
| Additional Standards or electrical code of otactico were required: | MS 3000 | i |
| Date or range of dates that prescribed electrical work undertaken: (915022 | 14pm 2910 | |
| Contains fittings that are safe to connect to a power supply? | D No | |
| Specify type of supply system: 230V Mana MEN | | |
| The installation has an certhing system that is correctly rated (where applicable) | 🗉 Yes 🗌 | No |
| Parts of the installation to which this certificate relates that are safe to connect to | a power supply? | ··/ |
| | | |
| II yes – viewels one istantonacturary instruction name, dure and yers on Alic, etcade a more direction. | NO NO | - |
| IO- provide reference to road by occessible effectional: format, og smartari utki) | | |
| Identify, Manufacture 7 (0.700) and statutes with Statution former \$50 april 1000 and \$6000000. | | ·· |
| The work has been done in accordance with a certified design: | <u>Гі ма</u> | |
| Il yas - identity the Certifical cestion including name, date and version. Also attach a copy of the cortified o | ksign tip chiş nertilizetir. | |
| (Or provide reference to reachly accessible electronic format, eginterixe) into (| | |
| General Constructions in a second state of the | | |
| The work relies on a Supplier Declaration of Conformity (SDoC): | | |
| Electric all which the SOCC including name, date and which (20 (Figs registration) Also attach a copy of the Also attach a copy of the | \$DoC to also condicate | |
| to provide relevance to readily appearance originating formal, og internet and i Inderen y stort objeter | | |
| bne | | |
| The installation has been satisfactorily tested in accordance with the Electricity (Safety) Reg | ulations 2010 | Птез |
| Vescription of Work: | Test Recipits (provi | de valuea) |
| Finstair New Street Country with LED Head | lindspendem costh] | |
| Connection Liebt Olev | Histians wist.wer 2 | 00+ M Ohms |
| Maros Cable, Maine Installation by others | Lath Convineiry 0 | .1 Obms |
| Livenec by others. | Fault Song engrange | Downed I |
| | Othor(specify) | |
| By signing this document I certify that the completed proscribed electrical work to | which this Certificate of C | ompliance |
| applies has been done lowivity and safely, and the information in the certificate is | LOWOCI, | en graenes |
| Certifier's signature: 100 - 1 | 97D3/2921 | |
| Electrical Safety Contillecte | | |
| C-CONTRACTOR CONTRACTOR | | |
| By signing this document i certify that the installation, or part of the lease street | to mission this flamman and | |
| By signing this document i certify that the installation, or part of the installation, applies is connected to a power supply and is safe to use. | 10 which this Electrical Sa | itaty Certilicate |
| Ay signing this document l'certify that the installation, or part of the installation, applies is connected to a power supply and is safe to use. Certifier's Registration Reg | 10 which this Electrical Sa | |
| Ay signing this document l'écrify that the installation, or part of the installation, applies is connected to a power supply and is safe to the Conflients Registration name: Registration Confliction | 10 which this Electrical Sa en/Practicing Inuber: | |
| Ay signing this document l certify that the installation, or part of the installation, applies is connected to a power supply and is safe to use. Certifier's Registeration Certifier's Registeration Certifier's Certificate Fignature; Some for the installation, or part of the installatingenetices, or part of the installation, or part of the | 10 which this Electrical Sa en/Practicing Inter: Inter: | |

In a firm to Spirit Code and a constraint processed was welcapped at a product of the pupped address of the Principles (Color Principles) (Filler)

| • | LECTRICAL CE | RTIFICATE OF CO | MPLIANCE & ELECT | FRICAL SARETY CE | BTIELCATE |
|---|---|--|---|---|---|
| | renucci frazime. | NWELCO | C 1583 -7 | | KTII KATE |
| IVEN ® | is form has been deep | and to be used by lensing | defections of west are in carrier | | Maladon uncor Exercica |
| Par Par | rt 2 of AS(N25 3000 . | re salo so by connected to | TO Spotlind sevene of observed | lánai weiphe | |
| Excation Details: | Subdivision | Area M - Stage ! | 9 to 15 Greenhill F | Park Hamilton # | 120 |
| Contact Details: | | | | | · · · · |
| ,Nome and address) | Ł | | | | |
| Name of Electrical | | | Repetration/Practic | | |
| worker: | Yeti Mart | yn | Wcence member: | "" E257490 | |
| Phone & email: | i - Ch | nen niekomai coa | | | |
| Name and registration | 1 Osimber | | | | . <u></u> |
| of person(s) supervise | vd: | | | · | |
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| Contains fittings that a | are safe to conne | et to a power supply | 7 🖻 Yes | □ No | |
| Specify type of supply | System: 2300 Ma | ms MEN | | |] |
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| By signing this document | nt I certify plant a | he completed proson | bed electrical work to | witch this Certificate | of Compliance |
| applies has been done | lavy fully, and safe | ily, and the informati | on in the certificate 3 | COrrect. | es completies |
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| Electrical Safety Ce | rtificáto | | | | |
| By signing this docume | ent l certify that | the installation, or p | art of the installation, | to which this Electric | al Safety Certificate |
| Opplies is connected to Centrier's | a power supply | and is safe to use. | - | | |
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| Contact Details: | | | | | | <u> </u> | |
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| Name of Electrical | | | Registration/Pr | cuising 🗔 | | | 1 |
| worker: | Yeu Marty | | Rence number: | E | 257490 | |] |
| Phone & cmail: | (jetmor | lyn@nonwil.com | | | | | |
| Name and registration of person(s) supervise | d: | | | | | | ן |
| Certificate of Com | aliance | | | | | | |
| Type of work: The prescribed alectric | al <u>work is:</u> | Addition | Alteration Alteration | »^ 🔳 | New wysi. High Alsk Mea | <u>Né</u> | _ |
| Meaas of compliance: | ···· | | | 461605.200 | | | ļ |
| Additional Standards c | or electrical code of | practice were requ | ulred: 🔳 No [| Ves (speri | ∾ `v⊧ | | |
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| Link | | | | | | | |
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| Livened by other. | 5 | | | Fault | Linda i Bigi v dan Ge | Olines | |
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| By signing this docume applies has been done | mul controlly that the Invehilly and safely | : completed press? , and the informat | ibad electrical woo lon in the certifica | ik to which le i <u>s correct</u> | ihis Certificate | of Compliance | |
| Certifier's signature: | CANHI | | Dat | e;[0%03/20 | 021 | | |
| Electrical Safety Co | rtificate | | | | | | |
| By signing this docum | ent i certify that th | le installation, or p | art of the installa | tion, to whi | ch this Clectric | al Safoty Contilicate | |
| applies is connected to | o a power supply a | nd is safe to use. | | _ | | | _ |
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| | EFERENCE/CER | CERTIFICATE OF CO TIFICATE ID NO.: NWELCO In designed to be used by lisers 8000 are safe to be connected a | MPLIANCE | St ELECT | that installati | AFETY CER | TIFICATE | r Part 1 or |
|--|---------------------------------------|---|-------------------------|-------------------------------|---------------------------------------|--------------------------|--------------|-------------|
| Location Details: | Subdivis | ion Area M - Stage | 9 to 15 Gre | əenhill F | Park Han | nilton # | 133 | |
| Contact Details: (Name and address) | | | | | | | | |
| Name of Electrical worker: | Yeti M | lartyn | Registratio | n/Practis | E25 | 57490 | | |
| Phone & email: | | yelimariyn@hotmail.com | | | | | | |
| Name and registratio of person(s) supervis | n number ed: | | | | | | | |
| Certificate of Con Type of work: The prescribed electr | npliance ical work is: | Addition Low risk | Alt Ge | eration neral | I Na | ew work Rh-risk (Seed | 64: | |
| Means of compliance Additional Standards | : or electrical | Part 1 of AS/NZ5 code of practice were re | 3000 🔳 Par quired: 🔳 | rt 2 of AS/ No 🗌 Ye | NZS 3000 is (specify): | | | 1 |
| Date or range of date | s that prescr | ibed electrical work unde | ertaken: [moas | 09 | | | | |
| Contains fittings that | are safe to o | connect to a power suppl | y? 🔳 | Yes | | No | | |
| specify type of suppl | y system: 23 | OV Mains MEN | | 100001-01- | | | _ | |
| The installation has a | in earthing s | ystem that is correctly ra | ted (where app | licable) | | Yes 🗋 | No | |
| Parts of the installati | on to which | this certificate relates the | at are safe to o | connect to | a power s | upply? | | |
| All 📋 Parts (spe | scity) | | - | 5257 | | 2.55 | | |
| he work relies on m | anufacturers | instructions: | | Yes | | No | 65 - C | |
| f ym – identify the instruct Or provide reference to re | tion manual inch artilu accessible | ading name, date and version. A electronic formation laterant li | Use attach a copy | of manufact | urer's instruct | tions to this cer | tificate. | |
| Identify: Navalock.rer's min | untern allacted. Vi | OLU Stark Little Bodney LED street iven | neve. 20/95/2019 | | | | | |
| Unit: | | | | | | | | |
| The work has been d | one in accord | dance with a certified des | sign: | Yes | | No | | |
| fyes - identify the contine | d design includie | ng name, date and version. Also | attach a copy of t | he centified | design to this | certificate. | | |
| Or provide reference to re | odily accessible | oloctronic format, eg internet l | nk.] | | | | | |
| Eink: | fod. Rostway Light | ng Ploedrawing | | | | | | |
| The work relies on a | Supplier Dec | laration of Conformity (S | DoC): | Yes | | No | | |
| f yes - identify the SDoC in | cluding name, d | ate and version OR EESS register | ation. Also attach | a copy of the | SDoC to this | cortificate. | | |
| Or provide reference to re | adily accessible | electronic format, eg internet li | nR.] | 0.0943/0943 | | | | |
| Mentify: stocationed | | | | | | | | |
| be installation has had | e collefactoril | is backed in a second second state | the Plant of the | | | | - Fals | |
| Description of Work | n satisfactora | y cessed in accordance with | the Electricity (| Safety) Re | gulations 20 | 10 | to Yes | |
| lest-libber Oles | | | | | Pr | SC Results (p | rovide valu | lesi |
| Install New Stre | et Columr | 1 with LED Head | | 1212-122 | (Indeper | dent earth): | | |
| Install MEN Boa | ard, main t | Earth and Earth Sta | ke, Cad W | elded | Insulatio | n resistance: | 200+ N | / Ohms |
| Connection - L | ight Risk | N | | | Earth | Continuity: | 0.1 | Ohms |
| Mains Cable, M | ains instal | liation by others. | | | 80 | oding | 0.1 | Ohms |
| Livened by othe | rs. | | | | Fault 100 | p impedance | | Ohms |
| | Contactor and | | | | Other | (specify): | | |
| ly signing this docum | ent I certify | that the completed press | cribed electric | al work to | which this | Certificate | of Complia | nce |
| pplies has been don | e lawfully an | d safely, and the informa | tion in the cer | tificate is | correct. | | | |
| rtifier's signature: | 444 | | | Date: | 9/03/2021 | | | |
| Electrical Color | antificato | | | 00101 | | | | |
| Electrical safety C | nent I certify | r that the installation, or | part of the in | stallation | , to which | this Electrica | al Safety Ce | ertificate |
| By signing this docur applies is connected | to a power s | oppey and is sale to use. | | | | A COLUMN AND A COLUMN | | |
| By signing this docur applies is connected Certifier's | to a power s | opply and is sale to use. | 1 | Registrat | ion/Practisi | ne | | |
| By signing this docur applies is connected Certifier's name: | to a power s | oppry and is sare to use. |] | Registrat | ion/Practisi umber: | nt: | | |
| By signing this docur applies is connected Certifier's name: Certifier's | to a power s | Certificate |] | Registrat licence n Cor | ion/Practisi umber: nection Dat | ne | | |

The Electrical Safety Certificate also confirms that the electrical work complex with the building code for the purposes of Section 15(1)(s) of the Building Act 2004.

| | FFERENCE/CER | TFICATE ID No.: NWELCO mdesigned to be used by licerse 1000 are sefe to be connected to | MPLIANCE & ELEC DC15B3 2 d electrical workers to certi | TRICAL SAFETY | CERTIFICATE |
|---|--|--|--|---|--|
| Location Details: | Subdivis | ion Area M - Stage | 9 to 15 Greenhill | Park Hamilton | #134 |
| Contact Details: (Name and address) | | | | | |
| Name of Electrical worker: | Yeti M | lartyn | Registration/Pract licence number: | E25749 | 0 |
| Phone & email: | | yelmartyn@hoimail.com | | | |
| lame and registratio of person(s) supervise | n number ed: | | | | |
| Certificate of Com Type of work: The prescribed electr | ipliance | Addition Low risk | Alteration General | New worl | k (Specify) |
| Arans of compliance Idditional Standards | or electrical | Part 1 of AS/NZS code of practice were req | 3000 🔳 Part 2 of As juired: 🔳 No 🗌 1 | /NZS 3000 /es (specify): | |
| late or range of date | s that prescr | ibed electrical work unde | rtaken: [mainten] | | |
| ontains fittings that | are safe to o | connect to a power supply | i? 🔳 Yes | No No | |
| pecify type of supply | y system: 23 | OV Mains MEN | | | Pine - |
| he installation has a arts of the installati | in earthing s on to which | ystem that is correctly rat this certificate relates tha | ed (where applicable) t are safe to connect | Yes to a power supply? | No No |
| 📕 All 🛄 Parts (spe | icify) | an and a second second | Contraction of the second data | | |
| he work relies on m | anufacturers | instructions: | Yes | No No | |
| yes - identify the instruct Or provide reference to be | tion manual led | uting name, date and version, Al | so attach a copy of manufa | iturer's instructions to th | his cartiliscate. |
| identify: Mandactore's ear | odiny accessione odions attached. Vit | Ciccionic format, eg internet i in OLU Sick Little Grother LEO street kress | K.) ev. 20/05/28/9 | | |
| Unic | | | the second | | |
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This Excercal Solety Certificate also confirms that the electrical work complian with the faulding code for the purposes of Section 15(1)(x) of the thirting Act 2014.

| | ELECTRICAL CEI EFERENCE/CEITHICA his form has been desa ert 2 ef AS/N2S 3000 a | TIFICATE OF CO | MPLIANCE & E OC1583 3 of electrical workers to o the specified system | ELECTRICA | AL SAFETY CER | TIFICATE |
|--|---|---|--|--------------------------------|--|-----------------------|
| Location Details: | Subdivision | Area M - Stage | 9 to 15 Green | hill Park | Hamilton #, | 35 |
| Contact Details: (Nome and address) | | | | | | |
| Name of Electrical worker: | Yeti Mart | yn | Registration/P licence numbe | ractising | E257490 | |
| hone & email: | year | martyn@hotmail.com | | | | |
| lame and registration f person(s) supervise | on number ed: | | | | | |
| Certificate of Con Type of work: The prescribed electr | npliance rical work is: | Addition | Alterat | tion | New work High-risk (Speci | fy]: |
| Aeans of compliance | n: Los alactrical cada | Part 1 of AS/N25 | 3000 🔳 Part 2 (| of AS/NZS 30 | 000 | |
| ate or range of date | is that prescribed | electrical work under | ertaken: 00000001 | L] yes (spe | city(s) | |
| ontains fittings that | t are safe to conne | ect to a power suppl | v? 🔳 Y | es 🗖 | No | |
| pecify type of supp | y system: 230V Ma | ine MEN | | | | |
| he installation has | an earthing system | that is correctly rat | ted (where applicab | el 🔳 | Yes 🗍 | No |
| arts of the installat | ion to which this o | ertificate relates the | at are safe to conn | nect to a pow | wer supply? | |
| 🖬 All 🗌 Parts (sp | ecify) | | | 0.00000000000 | | |
| he work relies on m | anufacturers inst | ructions: | N | es 🗌 | No | |
| yes - identify the instruc | tion manual including | name, date and version. A | Uso attach a copy of m | anufacturer's in | structions to this car | tificata. |
| Or provide reference to n | sadily accessible electro | onic format, eg Internet lå | nk.) | | x =00001040000102011010 | |
| Identify: Manufacturer's not Link: | Aufteria altechesi. VIOLU Se | vk Löle Bioher LED strait kret | wire. 20/25/2019 | | | |
| he work has been d | one in accordance | with a certified des | tion: | es 🗖 | No | |
| yes - identify the certific | d design including nam | e, date and version. Also | attach a copy of the ce | entified design t | o this sertificate. | |
| Or provide reference to m | adily accousible electro | onic format, og internet lø | nk | and a starger | a line for the line and | |
| Identify: Cottlad design at a | ntext. Readway Lighting Filance | kraig | | | | |
| the work relies on a | Supplier Declacati | on of Conformity /S | Doch III V | | 100 | |
| ves - identify the SDoC in | cudite name, date an | d version OF FESS resister | book in the state | | NO this contiliants | |
| Or provide reference to n | adily accessible electro | anic format, og internet le | nk.) | it or the pools (| o uns cerunicate. | |
| Identify: stoc attacket | | | | | | |
| Unit: | | | | | | |
| he installation has been | in satisfactorily test | ed in accordance with | the Electricity (Safe | ty) Regulation | ns 2010 🕞 | Ves Yes |
| Description of Work | - | C 524532 N | | - | Test Results (p | rovide values) |
| Install New Stre | et Column wit | h LED Head | | - (In | dependent earth]: | |
| Install MEN Boa | ard, Main Earth | h and Earth Stal | ke, Cad Welde | ed ins | ulation resistance: | 200+ M Ohms |
| Connection - L | light Risk | | | Ē | Earth Continuity: | 0.1 Ohms |
| Mains Cable, M | ains Installatio | on by others. | | | Nording: | 0.1 Ohms |
| Livened by othe | rs. | | | Ŧau | It Loop Impedance | Ohms |
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| y signing this docun | ent I certify that t | the completed press | ribed electrical w | ork to which | this Certificate | of Compliance |
| pplies has been don | e lawfully and saf | ely, and the informa | tion in the certific | ate is correc | ct. | |
| tifier's signature: | the | | D | 09/03/ | 2021 | |
| Instal fater | | | | ere: menous | | |
| bucine this down | nent I certify that | the installation, or and is safe to use. | part of the install | lation, to wi | hich this Electric | al Safety Certificate |
| pplies is connected | to a power supply | | | ale to all and the | and a later of the | |
| pplies is connected entifier's ame: | to a power supply | | Rep | gistration/Pra ance number: | actising | |
| ipplies is connected entifier's wme: ientifier's | to a power supply | Certificate | Rej lice | gistration/Pra ince number: | n Date: | |

| | FERENCE/CER is form has bee | TIFICATE ID No.: NWELCO | OC15834 ed electrical workers to ce | rtify that installation | s or Part inst | TIFICATE |
|--|---|--|--|--|---|---|
| Pa Location Details: | Subdivis | sion Area M - Stage | 9 to 15 Greenh | electrical supply. Il Park Hamil | iton #/ | 36 |
| Contact Details: (Nome and address) | | | | | | |
| Name of Electrical worker: | Yeti M | lartyn | Registration/Pra | ctising E257 | 7490 | |
| hone & email: | | yetmanyn@hotmail.com | | | | |
| tame and registration of person(s) supervise | n number ed: | | | | | |
| Certificate of Com ype of work: The prescribed electri | pliance cal work is: | Addition | Alteratio | o 📄 New | work -risk (speci | (v) |
| leans of compliance dditional Standards | or electrical | Part 1 of AS/N2S code of practice were re- | 3000 🔳 Part 2 of quired: 📕 No 🗌 | A5/NZS 3000] Yes (specify):[| | |
| ontains fittings that | are safe to r | connect to a nower suppl | ertaken: owwyszi | | | |
| pecify type of supply | system: 23 | OV Mains MEN | yr 🖬 ies | | , | |
| he installation has a | n earthing s | vstem that is correctly rat | ted (where applicable | | | No |
| arts of the installatio | on to which | this certificate relates the | at are safe to conner | t to a power ser | aply? | 140 |
| All 🗌 Parts (spe | cify) | | | | 1.1. | |
| he work relies on ma | anufacturers | s instructions: | Yes | No No | ê | |
| yes - identify the instruct | on menual incl | uting name, date and version. A | Also attach a copy of mass | facturer's instructio | ns to this cer | tificite. |
| Or provide reference to rea | adily accessible | electronic format, eg Intornat li | nk.) | | | |
| Identify: Verelacture's instr- | cline of hithed ye | OUI Stole Little Brither LEO alwest tame | | | | |
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| Unic The work has been do type - identify the centified Or provide reference to re- identify: Center deser attai- limi: The work relies on a S type - identify the SOOC inc Or provide reference to rea- identify: SOOC attached Livi: The installation has been Description of Work: Install New Street Install New Street Install MEN Boa Connection - Li Mains Cable, Ma Livened by other Py signing this document upplies has been done rtifler's signature: Electrical Safety Co Sy signing this document pplies is connected to Certifier's tame: Certifier's | ane in accord idesign includin dily accessible implier Deck duding name, d dily accessible a satisfactorit et Column rd, Main E ight Risk ains Instal rs. ent I certify a power su | dance with a certified des og nane, date and version. Also electronic format, og Internet & og Phoneseng laration of Conformity (Si ate and version OII EESS registra electronic format, og Internet in y tested in accordance with n with LED Head Earth and Earth Sta llation by others. that the completed press of safely, and the information y that the installation, or upply and is safe to use. | sign: Yes attach a copy of the certaink.) DoC): Yes attoch a copy of the certaink.) DoC): Yes attoch Also attach a copy of nk.) the Electricity (Safety) ke, Cad Weldec cribed electrical wor attion in the certificat Data part of the installat Regis licent | No No Ideal design to this ce Ideal design to this ce Ideal I | rtificate. | ao Yes rrovide values) 200+ M Ohms 0.1 Ohms 0.1 Ohms of Compliance |

This Electrical Solidy Contribute also confirms that the electrical work complies with the building code for the proposes of Section 19(1)(n) of the Building Ad, 2014.
| | LECTRICAL EFERENCE/CER is form has bee in 2 of AS/N2S | CERTIFICATE OF CON THICATE ID No.: NWELCO In designed to be used by Iconce 3000 are safe to be connected to | MPLIANCE & | Distance of the second | AL SAFETY CE | RTIFICATE |
|---|--|--|---|---|---|------------------------|
| Location Details: | Subdivis | ion Area M - Stage | 9 to 15 Green | nhill Park | Hamilton # | 137 |
| Contact Details: (Name and address) | _ | | | | | |
| Name of Electrical worker: | Yeti M | lartyn | Registration// | Practising er: | E257490 | |
| hone & email: | | y#imprtyn@holmail.com | | | | |
| lame and registratio of person(s) supervise | n number ed: | | | | | |
| Certificate of Com Type of work: The prescribed electri | ipliance ical work is: | Addition Low risk | Altera | ation rai | New work High-risk (Sce | cital |
| Means of compliance additional Standards | or electrical | Part 1 of AS/NZS code of practice were rec | 3000 🔳 Part 2 puired: 🔳 No | of AS/NZS | 3000 ecify): | |
| ate or range of date | s that prescr | ibed electrical work unde | rtaken: amara | | | |
| ontains fittings that | are safe to o | connect to a power supply | 17 🔲 🔰 | res 🗖 | No | |
| pecify type of supply | y system: 23 | DV Mains MEN | | | | |
| ne installation has a | n earthing s | istem that is correctly rat | ed (where applica | ble) 🔳 | Ves 🗋 | No |
| All D Parts (see | on to which | this certificate relates that | t are sate to con | nect to a po | wee, enbbjAs | |
| he work relies on m | 01Y) | In the set of the set of | | | 22265 | |
| wis - identify the instant | ion monution | instructions: | | res 🗋 | No | |
| Dr provide veference to re- | adily accessible | electronic format, eg Istevnet lir | iso actach a copy or n skil | nanutacturer's | instructions to this o | ortificata. |
| Identify: Manufacturer's mate | ctore altached Vi | OLU Stork Little Broffier LED showl tumm | ers 2005/2019 | | | |
| LIG8; | | | 1.000 | | | |
| he work has been do | ine in accord | lance with a certified des | ign: 🔳) | res 🗖 | No | |
| ryns – identify the certifier Drivereide reference to se | design includir | ig name, date and version. Also | attach a copy of the o | ertified design | to this optificate. | |
| Mentify: Ordied design stars | hail Rentword when | electronic format, eg internet in | 18-1 | | | |
| Unk: | | distanting. | | | | |
| he work relies on a 5 yes - identify the SDoC inc or provide reference to rea identify: SDoC atomic | iupplier Decl Iuding name, d adily accessible | aration of Conformity (SE and version OR EESS registral electronic format, og internat lin | NOC): Y tion. Also attach a co k.) | res 🔲 py of the SDec | No to this certificate. | |
| Links | | | | | | |
| he installation has bee | n satisfactoril | y tested in accordance with t | the Electricity (Sefe | ety) Regulati | ons 2010 | No Yes |
| Description of Work: | | V870-0028-24-0 | | | Test Results | provide values) |
| Install New Stree | et Column | with LED Head | | | Polarity Independent ourthil | and the second second |
| Install MEN Boa | rd, Main E | Earth and Earth Stak | ke, Cad Weld | ed i | sulation resistance: | 200+ M Ohms |
| Connection - Li | ight Risk | | 1779 1980 1990 1990 1990 1990 1990 1990 199 | and a second second | Earth Continuity | 0.1 Ohms |
| Mains Cable, Ma | ains Instal | lation by others. | | | Bonding | 0.1 Ohms |
| Livened by other | rs. | 11-11-11-11-11-11-11-11-11-11-11-11-11- | | F | ult loop impedance | Ohms |
| | | 2 | | | Other (specify): | |
| y signing this docum | ent I certify | that the completed prescr | ribed electrical w | ork to whit | h this Certificate | of Compliance |
| pplies has been done | awfully en | d safely, and the informat | tion in the certifi | cate is com | ect. | |
| the second se | 1110 | | 1 | 09/03 | /2021 | |
| tifiar's signature | 7400 | | | ate: | | |
| rtifier's signaturo | 111 | | | | | |
| rtifier's signatures Electrical Safety C By signing this docum applies is connected t Centifier's | ertificate ent I certify to a power se | that the installation, or upply and is safe to use. | part of the instal | lation, to v | which this Electri | cal Safety Certificate |
| rtifier's signatures Electrical Safety C By signing this docum applies is connected t centifier's same: | ertificate tent I certify to a power se | that the installation, or pupply and is safe to use. | part of the instal Re No | lation, to v gistration/P ence numbe | which this Electri ractising | cal Safety Certificate |
| rtifier's signatures Electrical Safety C By signing this docum applies is connected t certifier's same: certifier's | ertificate tent I certify to a power se | that the installation, or upply and is safe to use. Certificate | part of the instal Re lic | lation, to v gistration/P ence numbe | which this Electri ractising r: on Date: | cal Safoty Certificate |

This Electrical Solery Certificate also confirms that the electrical work complian with the building-code for the purposes or the same 10(1)(e) of the Building Act 2014.

| A | ELECTRICAL | CERTIFICATE OF COM | VIPLIANCE & ELEC | CTRICAL SAFETY | |
|--|---|--|--|---|-------------------------|
| Location Details: | Subdivis | 1000 are safe to be connected to | the specified system of ele | atrical supply. | 4 13 3 |
| | Subdivis | ion Area M - Stage s | a to 15 Greenhill | Park Hamilton | #155 |
| Contact Details: (Name and address) | - | | | | |
| Name of Electrical worker: | Yeti M | artyn | Registration/Pract licence number: | E25749 | 0 |
| Phone & email: | | yetmanyn@hotmail.com | | | |
| Name and registratio of person(s) supervis | n number ed: | | | | |
| Certificate of Corr Type of work: The prescribed electr | ipliance | Addition | Alteration General | New worl | c Specify) |
| Means of compliance Additional Standards | or electrical | Part 1 of AS/NZS 3 code of practice were req | 3000 🔳 Part 2 of A3 juired: 📓 No 🗌 1 | S/NZS 3000 fes (specify): | |
| Date or range of date | s that prescr | ibed electrical work under | rtaken: www.com | | |
| Contains fittings that | are safe to c | onnect to a power supply | r? 🔳 Yes | No No | |
| specify type of suppl | y system: 230 | JV Mains MEN | atter meters | | - |
| The installation has a | in earthing sy | stem that is correctly rate | ed (where applicable) | Yes | L No |
| Parts of the installati | on to which t | this certificate relates that | t are safe to connect | to a power supply? | |
| All [] Parts (spe | ecity) | 40.00 | | | |
| he work relies on m | anufacturers | instructions: | Yes | No No | |
| Or provide reference to re | adily accessible | along name, dote and version. As electronic format, exclutement in | so altach a copy of manufa à 1 | cturer's instructions to th | vis cortificato. |
| identify: Versfecturer's cale Unic | nations atteited. VK | 0.0 Stok Lithe Bosher LED alread tarrent | win, 2005/2019 | | |
| The work has been d fyes - identify the certifie Or provide reference to re identify: Center even and light | one in accord d design includir adily accessible i red Rostwy Ugler | lance with a certified desi gname, date and version. Also a dectionic format, og Internet lan g Randowing | ign: Yes Attach a copy of the certifie k.) | NO NO NO di design to this certificati | ε. |
| The work relies on a ! | Supplier Deel | aration of Conformity /SD | War | [] No. | |
| f yes - identify the SOoC in Or provide reference to re | cluding name, da adily accessible (| ate and version OR EESS registrat electronic format, og internet in | tion. Also attach a copy of t k.j | be SDoC to this certificat | 6) |
| Identify: Stor: etached | | | | | |
| The installation has bee | e satisfactorily | stested in accordance with t | he Flectricity (Safets) B | anulations 2010 | |
| Description of Work | | Contra el accardinica mun (| me ciection (parent) a | Test Resu | Its (provide values) |
| Install New Stre | et Column | with LED Head | | Palarity | and the state states of |
| Install MEN Bos | rd. Main F | arth and Farth Stak | e Cad Wolded | (Independent earl | hk: 000+11-m |
| The second second | inht Riek | Lantin uno Lantin Otak | ie, odd weibeu | Earth Contraction | Ce: 200+ M Ohms |
| Connection - I | ILLER PROPERTY AND INCOME. | | | caute cautionorty | 0.1 Ohms |
| Connection - L Mains Cable M | ains Instal | lation by others | | Barding | |
| Connection - L Mains Cable, M Livened by othe | ains Instal rs. | lation by others. | | Fault Loop impeda | 0.1 Ohms |
| Connection - L Mains Cable, M Livened by othe | ains Instal rs. | lation by others. | | Fault Loop impeda | nce Ohms |
| Connection - L Mains Cable, M Livened by othe | ains Instal rs. | lation by others. | ibed electrical work (| Bonding: Fault Loop impeda Other (specify): | nco Ohms |
| Connection - L Mains Cable, M Livened by othe y signing this docum pplies has been don | ains Instal rs. ent I certify 1 e lawfully and | lation by others. | ibed electrical work | Bording: Fault Loop impada Other ispecify): to which this Certific | cate of Compliance |
| Connection - L Mains Cable, M Livened by othe sy signing this docum upplies has been don rtifler's signature: | eins Instal rs. ent I certify t e lawfully and | lation by others. that the completed prescr d safely, and the informat | ibed electrical work tion in the certificate Date: | Bording: Fault Loop impada Other Specify): to which this Certific is correct. 09/03/2021 | ate of Compliance |
| Connection - L Mains Cable, M Livened by othe sy signing this docum upplies has been don rtifler's signature: Electrical Safety. By signing this docum applies is connected | ent I certify t e lawfully and ertificate nent I certify to a power so | lation by others. hat the completed prescr d safely, and the informat that the installation, or p upply and is safe to use. | ibed electrical work tion in the certificate Date: part of the installatio | Bording: Fault Loop impada Other Ispecify): to which this Certific is correct. 09/03/2021 | cate of Compliance |
| Connection - L Mains Cable, M Livened by othe By signing this docum applies has been don rtifler's signature: Electrical Safety. By signing this docum applies is connected Certifier's name: | ent I certify t e lawfully and ertificate nent I certify to a power su | lation by others. hat the completed prescr d safely, and the informat that the installation, or p upply and is safe to use. | ibed electrical work tion in the certificate Date: Date: part of the installatio Registra | Bording: Fault Loop impada Other Ispecify): to which this Certifie is correct. 09/03/2021 n, to which this Ele ation/Practising number: | cate of Compliance |
| Connection - L Mains Cable, M Livened by othe By signing this docum applies has been don rtifler's signature: Electrical Safety. By signing this docum applies is connected Certifier's name: Certifier's | ent I certify the lawfully and the lawfully to a power su | lation by others. that the completed prescr d safely, and the informat that the installation, or p upply and is safe to use. | ibed electrical work t ion in the certificate Date: part of the installatio Registration | Bording: Fault Loop impada Other Exectly: to which this Certifie is correct. 09/03/2021 n, to which this Ele ation/Practising number: | cate of Compliance |

This Electrical Safety Certificate also conferm that the electrical work complies with the beining code for the purposes of Section 15(7)(a) of the Building Act 2004.

| | ELECTRICA Interence/Ces his form has be | I CERTIFICATE OF COL INVELCO In designed to be used by Iconsa | MPLIANCE & E DG1583 7 d electrical workers to | CECTRICAL | SAFETY CER | RTIFICATE |
|--|---|--|---|---|--|----------------|
| Location Details: | art 2 of AS/NZS | 3000 are safe to be connected to | the specified system | of electrical supp | shy | 100 |
| counter stelling. | Subdivis | sion Area M - Stage | 9 to 15 Green | hill Park H | lamilton # | 139 |
| Contact Details: (Name and address) | | | | | | |
| Name of Electrical worker: | Yeti M | lartyn | Registration/P | actising E | 257490 | |
| Phone & email: | | yelmartyn@holmail.com | | | | |
| Name and registration of person(s) supervises the second sec | on number ad: | | | | | |
| Certificate of Con Type of work: The prescribed elects | npliance rical work is: | Addition | Alterat | ion 🔳 | New work High-risk (Speci | fvt |
| Means of compliance | r. (ne alacteica) | Part 1 of AS/NZS | 3000 🔳 Part 2 c | # AS/N25 300 | 10 | |
| Date or range of date | es that presc | ribed electrical work unde | rtaken: Manager | _] res (speci | ty):[| |
| Contains fittings that | t are safe to | connect to a power supply | 2 III V | - - | No | |
| Specify type of supp | y system: 23 | 30V Maine MEN | | | NO. | |
| The installation has | an earthing s | system that is correctly rat | ed (where applicab | e) | Yes 🗖 | No |
| Parts of the installat | ion to which | this certificate relates that | t are safe to conn | ect to a powe | er supply? | |
| 📕 All 🔲 Parts (spr | acify) | | | | | |
| The work relies on m | anufacturer | s instructions: | Ve Ve | sП | No | |
| f yes identify the instruc | tion manual ind | luting name, date and version. Al | so attach a copy of ma | nufacturer's inst | fuctions to this cer | tificate. |
| Or provide reference to re | radily accessible | electionic format, eg internet lin | й.) | | ************************************** | NO 77 180 |
| identify:Manifasterin's and Unit: | Authene Attochesia, VI | CLU Sion Little Brother LED airent lumins | me. 2065/28/9 | | | |
| The work has been d | one in accor | dance with a certified desi | ion: | | No | |
| f yes - identify the certifie | d design include | og name, date and version. Also a | ittach a copy of the cer | s L | this certificate | |
| Or provide reference to re | ad Py accusable | electronic format, og internet lin | k. | and an all and | und der undeber. | |
| Identify: Debied dasign star Links | chard. ProstNey Light | ing Plan drawing | | | | |
| The work relies on a | Supplier Der | latation of Conformity /SD | web lat ve | | | |
| Fyes - identify the SDoC in | cluding nime. d | tate and version OR EESS maintest | No Also stradu a over | 5 | NO | |
| Or provide reference to ru | adily accessible | electronic format, eg internet in | k.] | ren ene autor, co | this certificate. | |
| Identify: SDAC attached | | | 2.56 | | | |
| Unic has been been been been been been been bee | | | | | | |
| Description of Work | in satisfactorie | y tested in accordance with t | he Electricity (Safet | y) Regulations | 2010 | to Yes |
| lestappion of work | | 111 1 mm | | | Test Results p | wovide values) |
| Install New Stre | et Column | h with LED Head | | finde | sendent earthi: | |
| TRACING MUSIC DEPEN | ird, Main I | Earth and Earth Stak | te, Cad Welde | d Insul | ition resistance: | 200+ M Ohms |
| Connection Due | | 2012/00/2010/2010/00/ | | ta | th Continuity: | 0.1 Ohms |
| Connection - L | ight Risk | II as all as an inclusion of the second seco | | | Bonding: | 0.1 Ohms |
| Connection - L Mains Cable, M | ains Insta | llation by others. | | | Inco inconstance | Ohms |
| Connection - L Mains Cable, M Livened by othe | ains Insta rs. | llation by others. | | Fault | and indexance | Sums |
| Connection - L Mains Cable, M Livened by othe | ignt Risk ains Insta rs. | llation by others. | | Fault | her (specify): | sinis |
| Connection - L Mains Cable, M Livened by othe | ignt Risk ains Insta rs. ient I certify | that the completed prescr | ibed electrical wo | rk to which t | her (specify): | of Compliance |
| Connection - L Mains Cable, M Livened by othe | ignt Risk ains Insta rs. ient I certify e lawfully an | llation by others. that the completed prescr d safely, and the informat | ibed electrical we | rk to which t | her (specify) fils Cortificate | of Compliance |
| Connection - L Mains Cable, M Livened by othe signing this docum pplies has been dom rtifier's signature: | ignt Risk ains Insta rs. ent I certify e lawfully an GAA | llation by others. that the completed prescr d safely, and the informat | ibed electrical wo ion in the certifica Da | rk to which t ate is correct te: 09/03/20 | her (specify): this Cortificate | of Compliance |
| Connection - L Mains Cable, M Livened by othe sy signing this docum pplies has been don rtifier's signature: | ignt Risk ains Insta rs. ent I certify e lawfully an ertificate | llation by others. that the completed prescr Id safely, and the informat | ibed electrical wo ion in the certifica Da | rk to which to the is correct te: 09/03/20 | her (specify): his Certificate | of Compliance |
| Connection - L Mains Cable, M Livened by othe signing this docum pplies has been don rtifier's signature: Electrical Safety C | ignt Risk ains Insta rs. ent I certify e lawfully an ertificate nent I certify | that the completed prescr d safely, and the informat | ibed electrical wo ion in the certifica Da | rk to which to the is correct te: 09/03/20 | her (specify): this Certificate of 21 | of Compliance |
| Connection - L Mains Cable, M Livened by othe signing this docum pplies has been dom rtifier's signature: Electrical Safety C sy signing this docum pplies is connected | ignt Risk ains Insta its. e lawfully an artificate nent I certify to a power si | Ilation by others. that the completed prescr disafely, and the informat / that the installation, or p upply and is safe to use. | ibed electrical wo ion in the certifica Da Dart of the installa | Fault or of the is correct te: 09/03/20 ntion, to which | her (specify): this Certificate of 121 ch this Electrica | of Compliance |
| Connection - L Mains Cable, M Livened by othe signing this docum pplies has been dom rtifier's signature: Electrical Safety C Sy signing this docum pplies is connected to ertifier's | ignt Risk ains Insta rs. ent I certify e lawfully an ertificate nent I certify to a power se | Ilation by others. that the completed prescr d safely, and the informat r that the installation, or p upply and is safe to use. | ibed electrical wo ion in the certifica Da Dart of the installa Reg | Fault ork to which to the is correct te: 09/03/20 ation, to which istration/Prac | her (specify): this Cortificate of 121 ch this Electrica | of Compliance |
| Connection - L Mains Cable, M Livened by othe sy signing this docum pplies has been don rtifier's signature: Electrical Safety C By signing this docum pplies is connected in certifier's same: | ignt Risk ains Insta rs. ent I certify e lawfully an ertificate nent I certify to a power si | llation by others. that the completed prescr d safely, and the informat y that the installation, or p upply and is safe to use. | ibed electrical wo ion in the certifica Da Dart of the installa Reg lice | Fault or or of the is correct te: 09/03/20 ation, to while istration/Prac- nce number: | her (specify): this Certificate of 121 ch this Electrica | of Compliance |
| Connection - L Mains Cable, M Livened by othe signing this docum pplies has been don rtifier's signature: Electrical Safety C Sy signing this docum pplies is connected to certifier's same: certifier's | ignt Risk ains Insta its. e lawfully an artificate nent I certify to a power si | Ilation by others. that the completed prescr d safely, and the informat withat the installation, or p upply and is safe to use. Certificate | ibed electrical wo ion in the certifica Da Dart of the installa Reg lice | Fault or of the is correct te: 09/03/20 tion, to while istration/Prac- nce number: Connection | ther (specify): this Cortificate of 121 ch this Electrica tising | of Compliance |

The Electrical Safety Certificate deal confirms that the alactrical activ complex with the bailding coals for the purposes of Section 15(1)(e) of the Building Act 2004.

VEREAL FOOMS TOPICY LOOKINATION

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

| \mathbf{A} | Defense (Decod b) | | | |
|--------------------------------|--|---|----------------------------|--|
| KA - | References cas Nacord Str | | | |
| $\underline{\frown}$ | Nationwired greenne | li | | |
| lissuer (Inspector) | details: | | | |
| Name of inspector: | Gavin Bodey | | Pegistration #: | 1250728 |
| Email Address | gavm@bbdeyspark.co | .nz. | Interhone | 021 428 820 |
| Location of Instai | iletion: | | | |
| Location details: | Greenhill park subdivis | ion, Area M, Streetlight 139, | stage 9-15 | |
| Location Type: | Domestic | Non-Domestic Accommodation | n 🗆 n | dustrial 🗌 Commencial |
| - | Educational | Healthcare | 🖌 м | iscellaneous (othor) |
| Cent fying Electric | cal Work and Certificate (| af Compliance (CoC) details. | | |
| Name of Sectrical | Yeli Mariyo | | Registration #: | E257490 |
| vatoritken(s): | | | | EW121000 |
| CoC details: | Nationwired 19631 | | 1 | CoC(i) attached |
| | | | | |
| Cent fying Electric | call work and CoC details | | | |
| What was inspected | 4 | | | |
| New Installation, Ne | w Streetlight with M.E.N. I | oard, New Main Neutral bar an | d arcuil protection, | New Main Earthing |
| System Bonding of | Pole and cabinel door. | - | | |
| : | | | | |
| | | | | |
| | | | F 1 | |
| ASM2S2000 part 2 | on(s) and companion stands | rd(s), or identify the certified desig | gn, followed when a | arrying out the inspection |
| | | | | |
| | | | | |
| • | | | | |
| What are the result | s of the mapection | | | |
| Earling and bond r | ng visual ok, | | | |
| _polanty M.E.C. imo <.5 Ohn | 'n | | | |
| M.E.N. link. | HRPA #0058300Z3 | he | | |
| | | | | |
| High Risk Catego | rγ: | | | |
| Not to AS/NZS 30 | (00 Part 2 ~ 6A(2)(a)(i) | Photovoltax: system – 64(2)(a)()v | 5 | Electrikal medical area – 64(2)(a)(vi) |
| 🛄 High voltage instal | lissor – 6A(2)(s)(ii) [| Hacardous area 6A(2)(a)(v) | | Mains work = 6,4(2)(b) |
| 🔲 Moins parallel gane | eration - 54 (2) (#14) | Arianal sturning or meat conditor | ming 64(2)k) | |
| Other - please des | cribe: | | | |
| Declaration | | | | |
| hereby confirm (its | t the work described above In the work has been done of | has been done in / <u>petrie.</u> accom | dance with the regulations | ulations, and the streat stion / part |
| (Note: Strike out or o | leietestie uta <u>policabio m</u> or | & highlighted in red above) | - coord electric only a | |
| ŝignature: | | | Date | ^e 10/03/21 |
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| MB14132 64/17 - | | / | | |



| | Boferency/Possing B | ta na kaza. | | | |
|--|--|--|---|--|--|
| ∞ | Nationwired greenh | ill | | | |
| Issuer (Inspector) | detaj.s: | | | | |
| Name of Inspector: | Gavin Bodey | | Registration 4 | 4 : 1250728 | |
| Ennell Address: | gavin@bodeyspark.c | D. ń z | - Telephone: | 021 428 | 820 |
| Location of (asta) | Lattica (| | | | |
| Location details: | Greenhill park subdiv | lition, Area M, Streetlight | 194, stage 9-15 | | |
| Location Type: | Domestic | Non-Domestic Accommo | dation [| holzarial | 🗔 Commenda |
| | E Folucational | | [| Miscellaneous (| other) |
| Gettifying Flectrie | tel Work and Certificate | a of Compliance (CoC) deta | ls | | |
| Name of Electrical | Yell Maciyn | | Registration (| #: E257490 |) |
| wonten(s): | [| | | EW1210 | 000 |
| GoC details: | Nationwired 15832 | | - | |) attached |
| | | | | | |
| What was inspected New Installation, Ne System Bonding of Specify the regulati IS/NZS3000 part 2 | it w Sheetlight with M.E. N Pole and cabingt oper- on(s) and companion stand | L board, New Mart Newral b dard(s), or dentify the certified | ar and dirould prote design, followed wi | ction, New Main | Earthing he inspection: |
| What was inspected New Installation, Ne System, Bonding of Specify the regulati ASINZS 3000 part 2 What are the result Earthing and bondin polarity | it w Streetlight with M.E. N Pole and cabinet door. on(s) and companion stand on(s) and companion stand on (s) and companion stand stan | L board, New Marn Newral b dard(s), or denuity the certified | ar and dirculi prole | ction, New Main | Earth ing |
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| What was inspected New Installation, Ne System. Bonding of Specify the regulati Vinat are the regulati SINZS 3000 part 2 What are the regulati Schröng and bondin Schröng and bondin Schröng and bondin Schröng and bondin N.E.C. imp <.5 Ohn M.E.N. Inte. | it w Sineetlight with M.E. N Pole and cabinet door. on(s) and companion stand on(s) and companion stand on (s) and compani | L board, New Mari Newral b dand(s), or identify the certified | ar and dirculi prole | ction, New Main | Earthing |
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SALES | COMPARING (COMPLEXE)

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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|--|---|--|---|---|----------------------------|
| KA - | Neterinized search | ar I Ar Uible: | | | |
| | Institution of the end | <u></u> | | | |
| - laveer (Inspector) | gatally | | | | |
| Name of Inspector: | Gawin Bodey | | Registration 4: | 1250728 | |
| Ensail Addituses | gavin@bodayspark.c | o nz | Telephone | 021 426 820 | |
| Cocation of Insta | livition: | | | | |
| Location details: | Greenhill park subdiv | lsion, Area M, Streetight 3 | 35, stage 9-15 | | |
| Location Type: | 🛄 Domestic | Non-Domestic Accommod | ation 📋 I | ndusurial | 🗌 Commercial |
| | 🛄 Educational | Healthcare | | Hiscellaneous (othor) | _ |
| Certifying Florin | rel Work and Certificate | of Compliance (CoC) details | 7: | | |
| Name of Electrical | Yell Mariyn | | Registration #: | E267480 | |
| wonerist | ſ | | | EW121000 | |
| CoC details. | Nationwired 16633 | _ _ | 1 | CoCIO attach | 44 |
| | | | | <u> </u> | |
| Certifying Electri | cal Work and CoC detail | 5 | | | |
| What was inspected | f: | | | | |
| New Installation, Ne | w Streetlight with M.E.N. | board, New Main Neutral ber | and circuit protection | New Main Earlbin | ÷ |
| System Bonding of | Pole and calomet door. | | and arasis protection | | ¥ |
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| Specify the regulation | on(s) and companion stand | land (s), or identify the certified ${\mathfrak t}$ | lesign, followed when | Carrying out the inspe | ctions |
| ASINZS3000 part 2 | | | | | |
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| What are the result | s of the inspection | | | | |
| Earthing and bondin | ig visua lok, | | | | |
| polarity M.E.C. (mold 5 Obr | | | | | |
| M.E.N. link. | MRPA 80058 306Z | 0¥ | | | |
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| wigh Blok Lategor | | | | | |
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| | UU Yari 2 — GAQCIJA(II) Letion — AA(205/96) | ☐ Photovoltai: system ~ 0A(23) | eldina) | _] Electrical medica | al area — 5A(2)(a)(vi) |
| | nation – con(oppings) nation – 54 Olfshill | Hezerovus area - oviizijeytvi Ko-mai stu polon es opol sou | 414 million - 200 (1414) | Brij Mains Kon, - S | A(4)(P) |
| Other - please des | ander - anderstelltui | | an oralle-oxietici | | |
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| Declaration | | | | | |
| I hereby confirm the sistalilation on which | t the work described abov h the work has been done | e has been done <i>w</i> / <u>zarcia.ac</u> / is, and will be / <u>not ba</u> , when a | cordance with the reg milvened, electrically | ulations, and the Wa Sale | part (part |
| (Note: Strike out or d | leight the inagolicable of | rds highlighted in red above.) | - | | |
| Signature: | | | 0a | ^{16:} 10/03/21 | |
| | 7 | / | | | |
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SAFEDY | COMPLETING (| COMPLEMENT

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

we wanted

| A | Reference/Record N | L m boy. | | | |
|---|---|--|--|---|-------------------------|
| Ľ≌∕ | Nationwired greenhi | ill | | | |
| lavger (Inspector) | details | | | | |
| Name of Inspector: | Gavin Sodey | | Registration 🕿 | 1250728 | |
| Email Address: | gavin@bodeyspark.co | D.INZ | Telephone | 021 428 820 | |
| Location of Insta | lation | | | | |
| Location details: | Greenhil park subdivi | ision, Area M, Streebight 13 | 36 s:age 9-15 | | į |
| Location Type: | Domestic | Non-Domestic Accommode | sion 🗌 t | dustrial | Commercial |
| | Educational | Healthcare | √ | liscellaneous (other) | |
| Centifying Electric | cal Werk and Chriff case | of Compliance (CoC) details | : | | |
| Name of Electrical workers(d) | Yeb Mariyn | | Registration # | E257490 | |
| 444-14-14- | | | | EW121000 | |
| CoC dotalis | Nationwined 15834 | | | CoC(s) estach | ed . |
| | | | | | |
| Contifying Floatri | cal Work and Cott data'l | . . | | | |
| What was inspected | dt Rei in in hereiter | | | | |
| New Installation, Ne Sectors Boot Free of | ave Streebight with M.E. V. Rule and mitmatides | board, New Main Neural bar | and dircuit protection | , New Main Earthing | J |
| SAZIO III DOLIVIKIŘ DL | Pole and cadmin door. | | | | |
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| Specify the regulation | ion(s) and companion stand | lard(s), or idensity the certified d | esign, followed when o | arrying out the inspe | ction |
| ASIN253000 part 2 | | | | | { |
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| What are the reput | s of the inspection | | | • | |
| Earthing and bondin | ng visus ok, | | | | |
| M E.C. imp < 5 Ohr | נו | | | | |
| M.E.N. Jink. | MRPA #0058307x | (8D | | | |
| | | | | | |
| Uigh Risk Catego | ry. | _ | | | |
| Noi to As/NTS #C | 00 Part 2 - 6A(2)(a)() | Photovoltaic system – 64(2)(a | a)(iv) | Bectrical medica | al area ~ 6A(2)(a)(v1) |
| High voltage insta | Ballon - 64(2)(a)(ii) | Hazardous area – 6A(2)(a)(v) | | 🗹 Mains 40H - Se | 4(2)(6) |
| Other - please des | ecanou – ovtsifatini | | anau uš. evištici | | <u> </u> |
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| Decionation | • Marine la deservite de la se | - has been done in factor of | | | |
| i nerepy conterm that asstalilation on which | it the work bescribed abov In the work bas been done | is, and will by / <u>not ba</u> , when a | cordance with the reg inlivened, electrically | ulations; and the my safe | <u>eallacion</u> / phit |
| (Note: Strike out or o | Select the inapplicable of | rds highlighted in red above.) | | | |
| | | | | | |
| Signature: | | | Dat | e: 10/03/21 | |

SELECT COMPLETINGS | (COMPLEXIS)

36814132 34717

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

State Strategy and the

| A | Reference/Second | Number | | | ü |
|--|---|--|---|--|------------------------------|
| ∕⊘∖ | Nationwred greeni | nili | | | |
| Issuer (inspertor) |) entails: | | | | |
| Name of Inspector: | Gavin Bodey | | Registration #: | 1260728 | |
| Ennell Address: | gåWin@bodeyspark.r | 50 NZ | Telephone: | D21 426 820 | |
| Locatien of Insta | lation. | | | | |
| Location details: | Greenhill park subdi | vision, Area M, Streetlight 13 | 37, clage 9-15 | | |
| Location Type. | 📋 Cornestic 🔲 Educational | Non-Domestic Accommoda Healthcare | kācan []tr √7 № | idustrial Escellarieous (other) | Commercial |
| Contifying Electri | inal Work and Centrificat | te of Compliance (CoC) details | | | |
| Name of Electrical worker(s): | Yell Martyn | | Regimination #: | E25749D EW121000 | |
| CoC details. | Nationwired 15835 | | | CoC{;} states | d |
| Specify the regulat ASINZS3000 part 2 | ion(s) and companion stan } | derd(1), or identify the certified d | esign, followed when « | arrying out the inspec | ίο π |
| What are the result Earthing and boroin polarity M.E.C. imp < \$ Ohr M.E.N. link | ts of the inspection: ng visual ok, m HRPA #0058311 | v2S | | | |
| High Risk Calago | гу: | | | | |
| Not to AS/NZS 30 High coltage insta Nains parallel gen Other- please de | 00 Part 2 - 6A(2)(a)()) Nation - 6A(2)(a)(ii) Interation - 6A(2)(a)(iii) Suripe: | Photovolteic system - 6A(2)(a) Hazerdous area - 6A(2)(a)(v) Animal stunning or mean conv |)(n) Reioning - 54(2)(k) | Electrical medical Electrical medical Hains work 844 | area - 64(2)(6)(vi) 2)(6) |
| Declarat)m | | | | | |
| hereby confirm the installation on which | at the work described abo In the work has been doo | we has been done <i>in / Arthin acc</i> e is, and will be / <u>sorthe</u> , when e | ordance with the reg nivened, electrically t | ulations; and the Silow sale. | lation / part |
| (Noće, Strike ovit ovi Signative, 1 | delete the inagolicable | ords highlighted in red above.) | Dat | M an Marina | |
| | | | D.04 | •• 10/03/21 | |

SASENY I COMPETIANY | FIRMS SHOT

AUS14132 04/17 4

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

New Constraints - Constraints

| A | Reference/Record | N Import | | | _ |
|--|--|---|--------------------------|--------------------------------|-----------------------|
| <u>(@)</u> | Nationwired green | | | | |
| Issuer (Invoector) | det al. s | ···· ···· | | | |
| Name of inspector: | Gavin Bodey | | Registration #: | 1250726 | |
| Emel Address | gavin@bodeyspark.c | 20.0Z | Telaphone: | 021 425 820 | |
| Location at Instal | lation | | | | |
| Location details: | Greenhill park subdiv | vision, Area M, Streetlight 1: | 38 s:aga 6-15 | | |
| Location Type: | Domestic | Non-Domestic Accommods | xicn 🗌 la | dustrial | 📋 Commercial |
| | Educational | - Healthcare | M | scelleneous (other) | |
| Certifying Electri | cal Work and Centificat | a of Compliance (CoC) details | s: | | |
| Name of Hectrical workerisk | Yeti Maryn | | Registration # | E257400 | |
| | | | | EW121000 | |
| CoC detellin | Nationwired 158 36 | | | 🔄 CoC(s) attach | led . |
| Certifying Electric | eal Work and CoC geta | ls. | | | |
| New Installation, Ne System.Bonding of | W Straetlight with M.E. V Pole and cabinet door. | l board, New Main Newral bar | and circuit protection, | New Main Earthin | 9 |
| Specify the regulari AS/N2S3000 part 2 | ion(s) and comparison stan | dard(s), or identify the certified d | lesign, followed when ca | inying out the inspi | ection. |
| What are the result Earthing and bondir polarity M.E.C. imp <.5 Ohn M.E.N. latk. | s of the inspection: 19 visual ok, n HRPA 40058313) | M2Q | _ | | |
| Link Birz Comm | | | | | |
| Not to ASTNES 30 | 102 100 Part 2 - 64(2)(a)(i) | PhotovoWeic system - 64(2)2 | র্মা <i>থ</i> | Electricat medic | al arga - GA(2)Taliwi |
| High voltage install | lation - 64(2)(s)(ii) marine - 64(2)(s)(iii) | Havardous area – 6A(2)(2)(v) | dheelen dafmiri | 🖌 Mains wort - 6 | Λ[2](b] |
| Other - please des | cu pe erenen – <u>nadelishini</u> | | and and a devicited | | |
| Declaration | | | | | |
| hereby confirm the estallation on which | t the work described abo In the work bas been dow | we has been done in <i>Lowerin, acc</i> | condance with the regu | lations; and the an | Hellotion / part |
| Note. Strike out or o | lele <u>se</u> ste ina <u>policabl</u> a yo | ards highlighted in red above.] | anaveneo, electrically s | | |
| Signature: | <i>ci</i> | | Date | * 10/03/21 | |

VECCENT FUEL COMPOSICE

MB34332 04/12 C

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

| A | Reference/Record N | lumber: | | | |
|---|---|---|---|---|----------------------|
| <u>(</u> | Nationwined greenhi | 2 | | | |
| Issuer (Inspactor) | drta'ls | | | | |
| Name of Inspector: | Gavin Bodey | | Registration #: | 1250728 | |
| Email Address: | gavin@bodeyspark.c | o.nz | Telephone: | 021 428 820 | |
| Location of Iristo | Untions | | | | |
| Location details: | Greenhill park subdivi | ision, Area M, Streetilght 1: | 39, stage 6-15 | | |
| Location Type: | Domestic | Non-Domentic Accommody | atico 🗋 In | dustrial | : Commedial |
| | Frix cational | Healthcare | 2 M | Rožilaneous (sther) | |
| Centifying flects | dai Work and Clert ficate | et Compliance (CoC) details | | | |
| Name of Electrical worker(s): | Yeli Meriyin | | Registration #: | E257490 | |
| | ····· · | | | EW121000 | |
| CaC details. | Nationwired 15837 | | | 🛄 CoC(β) attached | |
| New Installation, Ke System, Bonding of Specify the regular AS/NZS3000 part 2 What are the result Eathing and bondin | w Steelight with M.E.N. Pole and cabinal door. ow(i) and companion stand s of the inspection: ig visual ok, | . Doard, New Main Neutral ber | erd oircuit protection, lesign, followed when c | New Main Earthing | <u></u> , |
| polarity MFEC.imp<.SOhn MEE.N.Link., | n HRPA #0058315F | γx | | | |
| High Kek Catego | гу: | | | | |
| Not to AS/N25 30 High voltage instal Mains parallel gen Other - picone des | 60 Part 2 - 6A(2)(a)(i) Ilazion - 6A(2)(a)(ii) eretion - 5A(2)(b)(la) white: | Photovoltaic system ~ 6A(2)) Hatardous area - 6A(2)(e)(v) Animol sturning or meat con | dilioning-64(C)k) | Dectrical medical are | e - 64(2)(6(v)) 9 |
| Declaration | | | | | |
| i hereby condirm the visitalitation on which | t the work described abov h the work has been done | re has been done in / particular ris, and wit be / <u>cot be</u> , when a | cordance with the regu enlivened, electrically s | ulations; and the 27966/1 ale | <u> "lon</u> /part |
| (Note: Strike out or c Signal ure: | nance the innertice blog of | ras highlighte 1 m red a bova.) |) Date | ^{ø.} 10/03/21 | |



| | Reference/Report Number: | | | | |
|---|---|--------------------------|---|------------------------|---------------------------------|
| (2) | Nationwired greenhill | | | | |
| ivsuat (inspector) | details: | | | | |
| Name of Inspector. | Gavin Bodey | | Registration #: | 1250728 | |
| Email Address: | gavin@bodeyspark.co.nz | : | Telephone: | 021 428 820 | |
| Location of Instal | lathy); | | | | |
| Location details: | Greenhill park subdivision, Area M, S | ireetlight 109st | age 9-16 | | |
| Location Type: | Domestic Non-Domesti | c Accommodation | | O utri N | Commerce) |
| | Educational Healthcore | | Z • | scellaneous (other) | _ |
| Certifying Electri | al work and Certificate of Compliance (| coc) detaits. | | | |
| Name of Electrical | Yell Martyn | 1 | Registration # | E257490 | |
| warker(s); | ······ | | | EW121000 | i |
| CoC details: | Nationwred 15792 Streellight 109 | | 1 | | •1 |
| | - | | Ì | | |
| Certifying Blactri | al Ways and Coll details | | | | |
| What was inspected | k | | | | |
| New Installation, Ne | w Streetlight with M E.N. board, New Main | Neutral bar and | i circuit protection | New Main Earthing | ₽ |
| 'System.Bonding of · | Pole and cabinet door | | | | |
| : | | | | | |
| | | | | | |
| Specify the regulati AS/MZS3000 oad 2 | onis) and companion standardish, or identify t | he certified desig | n, followed when a | arrying out the inspe | sctions |
| | | | | | |
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| Whollow the result | s of the inspection | | | | |
| Earling and bondin relative | ig visual ok, | | | | |
| M.E.C. imp <.5 Ohn | 1 | | | | |
| M.E.N. Ikik. | HRPA 90058367K4L | | | | |
| | | | | | |
| High Risk Catego: | . У. | | | | |
| Not to ASTNES 30 | Dû Part 2 – 64(2)(a)() 👘 🛄 Photovollais sy | stern = 64(2)(a)(w) | | 📃 Secrital media | al area — 6A (2)(a)(vi) |
| High volrage instal | l2Ciūn — 6A(2ļķs)[ii) ∐ Hasārdous area | - 6A(2)∌I₩) | | 🖌 Mains work – 6/ | 4(2)(b) |
| 🔛 Mains parallel gene | Katoo – <u>64(2)(2)(4)(4) L_ Animal shundh</u> | g or mest conditio | ning = 64(2)(c) | | ·— |
| Outer - prezee des | cribe: | · · · | | | |
| Doclaration | | | | | |
| hereby confirm the installation on which | t the work described showe has been done <i>i</i> In the work has been done is, and will be / <u>as</u> | a / <u>and m</u> laccord | ance with the reg wied, electrically | ulations; and the 🛲 | relizion/part |
| (Note: Strike out or o | leletethe inagolicable ords highlighted in | red above } | | | |
| Signature:] | | | Dat | ^{ec} 10/03/2≛ | |
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Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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| ~ | | | | | -3 |
|---|--|---------------------------------------|---|--|-------------------------------|
| ICX . | Reference/Record | ≤ Number | | | |
| డ్రు | Nationwired gree | nhill | | | |
| Sever (htspecter) |) setails | | | | |
| Name of Inspectors | Gavin Bodev | | Registration # | 1250728 | |
| Email Address: | gavin@bodeyspar) | | Telephone. | 021 428 820 | |
| Location of Insta | ilytran: | | ' | | |
| Location details: | Greenhill oark subr | fivision free M Streeticht 1 | 10stana 0-16 | | |
| Location Type | | Non-Domestic According | Him F |] Industrial | C Common of |
| | | | | Miscellaneous (other) | |
| Cortifying Electri | call Work and Certific | ate of Contoliance (CoC) detail. | <u>.</u> |] | |
| Name of Electrical | Yell Martyn | | Registration # | E257490 | |
| organise (198 | | | | EW121000 | ĺ |
| CoC details | Nationwed 157823 (| Streetlight 110 | | 🔄 CoE(i) at Lach | ∎d |
| System Bonding of Specify the regulari AS/NZS3000 part 2 What are the result | Pole and cabinat door. on(s) and companion sta | andlard(s), or identify the certified | design, followed wh | en carrying out the inspe | |
| Earthing and bondir polarity M.E.C. Imp <.5 Ohn M.E.N. Imk. | 19 visuel ok, 1 HRPA #005838 | 7K4L | | | |
| Llinn Rive Cabure | | | | · | |
| | 97 DD 8 2. 64 DM-MA | | | | 1 |
| High voltage instal | lation - 64(2)(a)(ii) | Hazanda Kiarea – 64(2)(sHz) | oj(v) | i i decokal meaki Mains work – 6/ | ares — carzijskas - Aržind |
| 🔲 Mains parallel gen | eration — 6A(2(4)(iii) | Animal stunning or must con | ditioning - 6A(2)(;) | | |
| Other - please des | onbe: | | | | |
| Declaration | | | | | |
| i hereby confirm the ristallarion on which | t the work described at In the work has been do | nove has been done in / artim, ac | cordance with the enlivened, electrica | regulations; and the first by safe. | tellation/part |
| Note: Strike out or a | lelete the insouther the | ouds highlighted in red above.) | | - | |
| Signature: | | | | Date: 10/0/3/21 | i |

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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(Fursuant to the Electricity (Safety) Regulations 2010)

| | ivererence/secard | N C | | | |
|--|--|---|---|---|---|
| <u>(</u> | Nationwired green | hull | | | |
| | details | | | | |
| Name of Inspector: | Gavin Bodev | | Registration # | # 1250728 | |
| Email Address. | gavin@bodeyspark. | co.nz | Telephone; | 021 428 820 | |
| Location of Insta | lation: | | | | |
| Location datails: | <u>Graechill oads subdi</u> | uision Area M Streatlind | bt 111 ptage 0.15 | | |
| | Cherryn park abou | | na desian T | | |
| DOCUMULTIN SPEC | | | modation [| moustaine Zi Maccellanceus /ottaati | T) contrastitation |
| Certify on Electri | cal Weck and Certifica | le of Compliance/CoCi da | *a`s: | | |
| Name of Flat Ideal | Vali Alextur | | Registration (| | |
| worker(s): | retu waanyn | | : ; | *: E257480 | |
| | L | | i | EW121000 | |
| CoC details | Nationwired 15794 Str | eefight 111 | | | hed |
| What was inspecte New Installation, Ne System, Bonding of | d: av Streetlight with M.E.r Pole and cabinet door, | N. board, New Main Nevara | Dar and droud protect | ction, New Main Earlb) | ng |
| What was inspecte New Installation, No System, Bondling of Specify the regulati ASIM2S3000 part 2 | d: aw Streetlight with M.E.r Pole and cabinet door, ion[s] and companion star | N. board, New Mart Newsta News(s), or identify the certif | l bar and circuit protec | ctron, New Main Earlb) | ng Hection: |
| What was inspected New installation, No System, Bonding of Specify the regulati ASIN2S3000 part 2 What are the result Early Di E.C. Imp < 5 Ohr M.E.N. link. | d: an Streetlight with M.E.F Pole and cabinet door, ion[s] and companion star is of the inspection ig visual ok, in HRPA #0058372 | N. board, New Marr Newska Mard(s), or identify the certif | i bar and circuit protec | ction, New Main Earlb) | ng hection: |
| What was inspected New installation, No System, Bonding of Specify the regulati ASIM2S3000 part 2 What are the result Earthing and bondin solarity M.E.C. Imp < 5 Ohr M.E.N. link. | d: an Streetlight with M.E.F Pole and cabinet door, ion[s] and companion star ion[s] and companion star ion[s] and companion star is of the inspection ig visual ok, in HRPA #0058372 | N. board, New Main Newsia Identi(s), or identify the certif | i bar and circuit protec | ction, New Main Earlb) | Pection: |
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Date: 10/03/21

SAFFTY COMPETENSING COMPLIANCE

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|---|---|---|--|--|--------------------------|
| <u>/</u> \(\) | Nationwired oreen | hill | | | |
| | | | | | |
| [ISSUET (Inspector) |) details: | | | | |
| Name of Inspector; | Gevin Bodey | | Registration 4 | t <u>1250728</u> | |
| Email Address | gavin@bodeyspark. | co.ńz | Telephone | 021 428 820 | |
| Location of Insta | lation. | | | | |
| Location details: | Greenhil park subdi | vision, Area M, Streetlight 11 | 2 stege 9-15 | | i |
| Location Type | 🛄 Domestic | Non-Domestic Accommodat | ion: | ndustral | Commercia. |
| | 🔲 Educational | 🔲 Neelthcare | 6 | Miscellaneous (ether) | _ |
| Cert'fylog Elects | es. Work and Certificat | er of Compliance (CoC) details. | | | |
| Name of Electrical | Yeti Martyn | | Registration \$ | E257490 | |
| workertyk | [| ···· í | | EW121000 | |
| CoC details: | Nationwired 15795 Str | ee lii ght 112 | | Cocki acted | ed I |
| | | | | | |
| Contifying Electri | cal Work and CoC doty | 13. | | | |
| What was inspected | dt | | | | |
| New Installation, Ne System.Souding of | aw Siremlight with M E.N Pole and cabinet door. | board, New Main Neutral bar a | and circuit protec | bon, New Main Earlhin | Ð I |
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| | | | | | |
| Specify the regulation | ion(s) and companion star | dard(s), or identify the certified de | sign, followed wh | en complex out the impo | xtian |
| AS/NZS3000 part 2 | ! | - | - | | : |
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| What are the result | s of the inspection | | | | I |
| Earthing and bondm | ng visual ok | | | | |
| polanty M.E.C. imp <.5 Ohn | n | | | | |
| M.Ę.N. link . | HRPA #0 058373 | Q1C | | | |
| | | | | | |
| High Risk Catego | .у: | | | _ | |
| Not to AS/N2S 30 | 00 Part 2 - 64(2)(8)(0 | Photosoltało system – 6A(2)(e) | (w) | Electrical medica | al ares — 6A(2)\$\$((vi) |
| High voltage instal | lalion – 64(2)(a)(a) eratino – 64(2)(a)(a) | Hauandous area ⊶6A(2)(a)(v) | taring SIGNLY | 🖌 Mains work 🛛 6/ | u(2)(b) |
| Olher plgase des | clibe | | oosan g oolotki | | |
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| Beclaration | | | | | |
| i nerezy contirm that instatilation on which | t the work described abo h the work has been don | we nat been done in / <u>potic</u> i, acco e is, and will be / <u>potice</u> , when en | ordance wish the divened, electrica | negulations; and the first illy safe. | <u>tellation</u> /part |
| (Note: Stake out or d | lelete the inaccticable | ords (Hyhlighted in red above) | - | | |
| Sghat.re | | | | Date: 10/03/21 | |

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Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

No. and Party of the Party of the

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(Pursuant to the Electricity (Safety) Regulations 2010)

| • | | ir u | rsoant to the bi | economy (sarecy) | wegmations 20 |
|---|--|--|---------------------------|--------------------------------------|-----------------------------------|
| <i>k</i> λ | Reference/Record No | ואכשו. | | | |
| \mathbb{Z} | Nebonwired greenhil | | | | |
| Issuer (inspector) | details | | | | |
| Name of Inspector: | Gavin Bodey | | Registration #: | 250728 | |
| Email Address. | gavin@bodeyspark.co | .nz | Telephane. | 021 428 820 | |
| Location of Instal | lulion: | • | | | |
| Location details: | Greenhill park subdivis | ion, Area M, Streetight 113 | slage 9-15 | | |
| Location Type: | Domesic | Non-Domestic Accommodated | - ⊪∐ n ∎ ∑ ⊦ | rdustrial Escellaneous (other) | 📑 Commercial |
| Centrifying Strate's | ca, Work and Certificate | et Compliance (CoC) det al Ist | | | |
| Name of Electrical worker(g | Yati Manyn | | Registration #: | E257490 Ewit21000 | |
| CoC details: | L Mation#ired 15798 Stree | light 113 | | CoC(s) attack | ed |
| Naw Installation, Ne System Souding of | w Streetikght with MLE.N. (Pole and cabinet door. | xəardi. Nəw Main Neutral bar an | d circuit protection | , New Main Earthin | g |
| Specify the regulati AS/NZS3000 pert 2 | on(s) and companion stands | rd(s), or identify the certified des | gn, followed when a | arrying out the inspi | ection: |
| What are the result Earthing and bondin polarity M.E.C. imp <.5 Ohn M.E.N. lank | s of the inspection: Ing visual ok, In MR&A 400 583774V | 5S | | | |
| Ligh Riss Cotego | ······································ | <u>-</u> | | | . _ |
| Not to ASAVES 30 High voltage instal | 00 Part 2 - 64(2)(5)() Iation - 64(2)(5)(i) Fration - 64(2)(5)(ii) | Phosovoltaic system – 64(2)(9)(3) Havardous area – 64(2)(4)(√) Animal stunning or meat conditi |) oning - 64(2)(d) | 🔜 Bectrical medic 💋 Mans work – 6 | ak area — 6A(2)(a)(vi) A(2)(b) |

Declaration

Increby continue that the work described above has been done to / northin accordance with the regulations; and the incrediation / part installation on which the work has been done is, and will be / <u>cont ba</u>, when entremed, electrically safe.

(Note: Strike out or delete the inspolicable words highlighted in red above.)

| Signatures | |
|------------|---|
| MB1+132-04 | 0 |

Other - please describe.

Date: 10/03/21

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Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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| A | Refutence/Record | Number. | | | |
|---|---------------------------------|--|----------------------------|--|----------------|
| \mathbb{Z} | Nationwired green | hði | | | |
| | eetsi.s: | | | | |
| Name of Inspactor: | Gavin Bodey | | Registration #: | 1250728 | |
| Email Address. | gavin@bodeyspark. | co.nz | Teléphone: | 021 425 820 | |
| Location of Instal | Ration. | | | | |
| Location details: | Greenhill park subd | ivision, Area M, Streetligh | i 114 siage 0-15 | | |
| Location Type: | 🔲 Domestic | Non-Domestic Accord | nedation 🗌 ir | dustrial | : Commental |
| | Educational | Ne#Ibcare | Z • | listellaneous (other) | - |
| Centifying Sleetin | ca, Work and Certifica | te of Compliance (CoC) de | Tails | | |
| Name of Electrical worker(d) | Yet Martyn | | Registration #: | E257490 | |
| | | | Ì | EW121000 | |
| CoC details: | Nationwired 16797 St | vetigi:t 114 | | CoC(s) attacked | |
| | | | 1 | | |
| Contifying Flectri | ta, Work and CoUlents | ri.s | | | |
| What was inspected | ± | | | | |
| New Installation, Ne | w Streekohl with M E. | N. board, New Main Neutral | ber and should protection | New Main Fanhian | 1 |
| System Bonding of | Pole and cabinet door. | | | | |
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| Specify the regulation | on(s) and companion star | ndard(s), or identify the certify | ed design, followed when a | ertying out the inspection | |
| AS/NZS3000 part 2 | | | | | |
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| What are the result | e of the issociation | | | | i |
| Earthing and bondin | ig visual ok. | | | | 1 |
| polaniy M.E.C. imo < 5.Ohm | • | | | | |
| MEN. IIrk, | HRPA #0058375 | Xas | | | |
| | | | | | , |
| High Risk Cabigor | ·y | | | | |
| 🛄 Nat to AS/NZS 30 | 00 Part 2 - 64 (2)(a)(i) | 🔄 Ehotovoltak system – 64 | (VI)(eHS) | Electrical medical area | - 64(2)(a)(vi) |
| 🔲 High voltage install | lation - 64(2)(a)(1) | 🗌 🛄 Heserdous area - 6A(2)(a) | (6) | 🖌 Mains work - 64(2)(b) | |
| 🔛 Maint zarallelgere | sation - 6A(2)(ο) | Animak sturning ar meat | conditioning 6A(2)(;) | | |
| | cribe. | | | | i |
| Declaration | | | | | |
| i hereby confirm that astatiation on which | t the work described ab | we has been done in / gettin le is, and wiki be / <u>portio</u> , wh | accordance with the region | danoos; and the boxe ling afe. | ion/part |
| (Note: Strike aut or d | elete the inspolicables | ords highlighted in reciabout | ·] | - | |
| signature: [| | | Dan | ^{e:} 10/03/21 | I |
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Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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| <i>ا</i> کم | Reference/Record No | uniber: | | | | |
|---|--|--|---------------------------------------|-------------------------------|--|----------------------------------|
| <u>س</u> | Nationwired greenhill | l | | | | |
| .ssuer (Inspector) | ortails | | | | | |
| Name of Inspector: | Gavin Bodey | | Regis | tration #: | 1250728 | |
| Ernell Address: | gavin@bodeyspark.co | nz, | Telap | hane: | 021 428 820 | |
| Location of Instal | liztion: | | | | | |
| Location details: | Greenhill park subdivis | ion. Area M, Streetigh | t 107alege : | 9-15 | | |
| Location Type | Οστ ιεχία | 🛄 Nan-Domestic Accord | nodetion | ۲ | dustrial | Commerce |
| | Effectional | 🗌 Heallhcare | | • ⊡ | Uscellaneous (other) | |
| Contifying Flentri | sal Work and Certificate (| of Compliance (CoC) die | la 191 | | | |
| Name of Electrical worker(s): | Yell Martyn | | Regis | tration #: | E257490 | |
| | | | | | ËW121000 | |
| CoC details | Nallorwired 16791 Street | VigM 107 | | | 🗌 CoC(\$ Altach | ad |
| Specify the regulati SPECIFY the regulati SINZS 3000 part 2 What are the result a thing and bondir clarity LE.C. imp <.S Ohn LE.H. Imk | Pole and cabinel door. ion(s) and companion standa s of the inspection: ig visual ok, in HRPA W006636387 | rd(s), or identify the certifi | ed design. Colle | wed when a | arrying coll the inspe | rction; |
| High Rive Latego | | | | | | |
| Not to AS/NZS 30 High voltage rate Mains parallel gen- Other - please des | 00 Part 2 – 6A(2)(a)(i) [lation ~ 6A(2)(a)(ii) [crotion – 6A(2)(a)(iii) [crotion – 6A(2)(a)(iii) [crote. | Photovoltác system – 64 Harardous area – 64(2)(a Anémol stunning or meat | (21)ailtei (m) conditioniting - | <u>64(2);c)</u> | Bectrical medica Mains work 64 | 91 ares — 64(2)(a)(vi 4(2)(b) |
| Declaration | | ···· | | | | |
| hereby confirm the israllation on which Vote: Strike out or o | t The work described above h rise work has been done i: lefere the u;agn/icabis-rork | e has been done <i>in America</i> s, and will be / <u>unit be</u> , wh ds highlighted in red above | accordance v en enlivened, e.) | with the reg electrically: | ulations; and the ata sale | tellation /part |
| Sugratione; [| | | | i Dai | ^{9:} 10/03/21 | |

SELECT COMPERATE CONSIGNAL

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

and the second designed

| A | Reference/Becord Number | | - · · · | |
|---|---|---|--|----------------|
| \sim | Nationwinad greenhill | | | |
| Issuer (Inspector) | cetalls: | | | i i |
| Name of Mapactor. | Gavin Bodey | Registration 2 | 1250726 | : |
| Email Address; | gavin@bodeyspark.co.nz | Telephanin | 021 428 820 | |
| Execution of instal | Ration. | | | |
| Location details- | Greenhill park subdivision, Area M, Streetilght 4 | 3 stage 9-15 | | |
| Location Type: | Domestic Non-Domestic Accommod | lation |] Industriel 📃 Com | mendal |
| | 🔲 Educational 🛛 🔄 Hesithcare | |] Miscelleneous (other) | |
| Certifying Electri | cal Work and Cert ficate of Compliance (C6C) detail | .5: | | |
| Name of Electrical worker(): | Yeti Martyn | Registration # | E257490 | |
| Herman Lay. | | | EW121000 | |
| CoC details | Netonweed 15838 | • | CoC(s) attached | |
| | | | | |
| Centifying Election | cal Work and CoC ortally, | | | |
| What was inspected | d: | | | |
| New Installation, Ne | w Sveetlight with M.E.N. board, New Main Neulral ba | (and project | ior, New Main Earthing | |
| - , | | | | |
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| Specify the reculari- | Ole ⁽ s) and companion stands of (s), or identify the certified. | decion followed whe | | |
| AS/NZS3000 part 2 | ······································ | | an an rjung oor are mapie aant | 1 |
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| Without any the month | n I the increation | | | |
| Earthing and bond in | ng wstan ok. | | | 1 |
| polanily M.E.C. Imo s.S.Ohm | | | | |
| M.E.N link. | HRPA #0056349.14\$ | | | ļ |
| | | | | |
| High Risk Catagor | <u> </u> | | | |
| Not to ASIN2S 30 | 00 Ran. 2 - 64(k)(a)(i) 👘 Photovollak system - 64(2)) | (a)(iv) | 🔲 Bertrical medical area – 64(2 | 10)(v) |
| High voltage instal | lation – 6A(2(%))) Hazardous area 6A(2)(k)(v) | | 🖌 Moins work - 64(2)(5) | |
| Mains parollel gene (1) Other – starse store | station \$4(2)(9)(9) Arioust stunning or meat con | dialoning - GA(2)(5) | / | |
| C Contra - transford | | | | |
| Declaration | | • • | | |
| I hereby confirm that asstallation on which | t the work described above has been done in / <u>artw.ac</u> • the work has been done is, and <i>will be / <u>native</u>,</i> when | cordance with the sentivened, electrica | regulations; and the workellation / y | onut: |
| (Note: Strike out or d | elete the inapplicable words highlighted in red above.) | | | |
| Verature | | | ^{Dale:} 10/03/21 | i |
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| MB14132 04/17 💆 | | | | |

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

CHARGE CONTRACT

| A | Reference/Rodald N | (umber | | | | |
|---|--|--|--------------------|--|------------------------------------|-----------------------|
| (2) | Nationwired greenh | 41 | | | | |
| "wurn ('nspector) | setai.s: | | | | | |
| Name of Impector: | Gavin Bodey | | : | Registration 4: | 1250728 | |
| Email Address: | gavin@bodøyspark.c | p.nz | Ì | Telephone: | 021 428 8 20 | |
| Lacation of Instel | lotren: | | | | | |
| Location details: | Greenhill park subdiv | ision, Area M, Streetligh | 120 : | slage 9-15 | | |
| Location Type: | 🛄 Domestic | Non-Domestic Accomm | odation | , O | Industrial | Commercial |
| | Educational | Healthcare | | \mathbf{Z} | Miscellaneous (oth=) | |
| Certifying flectri. | al Work and Certificate | of Compliance (CoC) det | 235 | | | |
| Name of Electrical workerfs): | Yeli Marlyn | | | Registration # | E257490 | |
| [] [] | | | | | EW121000 | ĺ |
| CoC details: | Nationwired 15E39 | | _ | | CoC(s) attach | Hed |
| | | | | | | |
| Continying Electric | tal Work und ChC detail - | 5: | | | | |
| What was inspected New Installation, Ne | t W Sirealikahi wala MLE.N. | Coerd, New Main Neutral I | ka an | 1 circuit protectio | on. New Main Earthin | a 1 |
| System Bunding of I | Pole and cabinet door | | | | | * |
| | | | | | | |
| | | | | | | |
| Specify the regulation ASAVZS2000 card 2 | on(s) and companion stand | lard(s), or identify the outlik | ad dasiq | n, lollowed when | a carrying out the inspi | NUME |
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| | | | | | | |
| What are the result: | s of the inspection: | | | | | |
| polarity | g wasar ok, | | | | | İ |
| M.E.C. imp < 5 Ohm M.E.N. link_ | HRPA #0058365# | 02 | | | | |
| | | | | | | |
| High Risk Categor | ·y. | | | | ••• | |
| CE ZIMZA OLION | 30 Part 2 - EA(2)(a)(i) | Photovoltaic system - 6A | (z) (a)(iv) | | 🗌 🛲 Rectrical medic | al area = 64(2)(a)(v) |
| High voltage instal | isilon - 64(2 k(a))ii) | Hazandous area – 6A(2)(a) | (*) | | 🚺 Mains work - 6 | (d)(5)IA |
| Makes parallel gene Other - classe der | valion – 64(2)(a)(iii) cohe: | Arimal stunning or meal (| conditio | ning - 64(2)(¢) | | |
| | | | | | | |
| Declaration | | | | | | |
| Thereby confirm that instatlation on which | t the work described above In the work has been there | ve has been done in / gattin is, and will be / <u>not be</u> , whe | accord In Shin | lance with the rev rened, elecancall; | gulations; and the fits y safe. | tellation/part |
| (Note: State out oud | eiete the unapplicable of | rcs highlighted in red above | <u>)</u> | | | |
| Signature: | | | | D | ate: 10/03/21 | |
| MILIALS2 00717 | 7 | | | | | |

SOLETE COMPLETENCE COMPLETE

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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| ^ | | | | |
|--|---|---|--|--|
| KA - | Reference/ Record | Number; | | |
| డ్రు | Nationwined green | hīP | | |
| Issuer [Inspector] | તેમ નાડ | | | |
| Name of Inspector: | Gavin Bodey | | Registration #- | 1250728 |
| Email Address: | navin@bodevsperk | co.nz | Telephone | 021 426 820 |
| | | 1 | - | |
| Location of Peter | | | | |
| Location details | Greenhill park subd | vision, Area M, Streetlight10 | 8 slage 9-15 | |
| Location Type: | Domestic | Non-Domestic Accommode | (ice) 🔡 | industrial 🗌 Commercia |
| | Educational | Healthcare | 2 | Miscolianocus (calum) |
| Certifying Electri | cal Work and Certifica | te of Compliance [CoC) details | : | |
| Name of Electrical workerfd- | Yeli Martyn | | Registration ff- | E257490 |
| HUICILLA | | | | FW121000 |
| Co-C details | Nationwired 158310 | | į | CoC(s) attached |
| | | | i | |
| Specify the regulati AS/NZS3000 part 2 What are the result Earthing and bonds polarity M.E.C. imp <.5 Ohn | on(s) and companion sta : : :s of the inspection to visual ok, n | ndard(s), cc identify the certified d | asi <u>e</u> n, followed when | carrying out the inspection |
| pa 2 04. 16 (K.) | | 3011 | | |
| Hinin & sk Cotoma | 7 3-1 | | | |
| Not to A(fb)75 20 | 00 Part 2 - 64/215/61 | Distantiair surram - 61/201 | 1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1 | Bettrical medical tree - 61/20-54 |
| High voltage instal | Lation 6A(2)(5;(1)) | Haiardous area - 64(2)(a)(4) | ₩ ₩ ₩ | $\mathbf{V} = \mathbf{M} = \mathbf{M} + $ |
| 🔄 Mains parallel gen | eration — GA(Z)(a)(iii) | Animal stunning or mean core | āt oniņg - GA(2)(c) | |
| Other - please det | sinbe | | | |
| Declaration | | | | |
| hereby confirm the | it the work described ab | ove hes been done <i>ku / <u>dore in</u> soo</i> de is, and will be / not he where a | ordance with the re- | gulations; and the motel/wind/ part |
| (Note Strikeout or e | reletethe ins <u>oria</u> ables | ne is, and the loss <u>and a</u> p, where hords highlighted in red above.) | anvenes, recording | aurc. |
| Signature | | |] De | ^{ate:} 10/03/21 |
| | 7 | / | i | |

WILL'Y LOWPETRICK COMPLEXICE

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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| A | Rufore-ru/2ocard N | unabor. | | | _ |
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| 19 | Nationwited oreenhl | II | | | |
| | | |] | | _ |
| war Physecar | 3213 IS | | | | |
| Marne of Inspector: | Gavin Bodey | | j Registration #: | 1250728 | |
| Emeil Address | gavin@booeyspark.co |), 192 | Telephone: | 021 428 820 | |
| Tocation of Insta- | lation | | | | |
| Location details; | Greenhill park subdrvi | sion, Area M, Streetlight | 121 stage 9-15 | | |
| Location Type: | Domestic | 📋 Non-Domestic Accommo | dation 📋 | ndustrial 🗌 Commerc | al. |
| | fducational | Healthcare | Z / | fiscelianeous (other) | |
| Certifying Meetr | ee. Work and Contificate | of Compliance (CoC) detai | l.s. | | |
| Name of Electrical worker(c) | Yetf Martyn | | Registration #: | E257490 | |
| | | | | EW121000 | i |
| CoC details. | Netlonwired 157913 Str | eelight 121 | í | CoC(s) accached | ' |
| | | | | | |
| Cortifying Fier trip | oul Work and CoC decails | | | | |
| What was inspected | đ. | | | | |
| New Installation, Ne Section: Reputing of L | w Streetlight with M E.N. Bein and pablent door | board, New Main Neuiral be | r and circuit protection | , New Main Earthing | |
| og stor in containing of t | rola and cabliner book. | | | | |
| | | | | | |
| Specify the receiver | and and conserving stands | ndel on density the second | | | |
| AS/NZS3000 part 2 | onita) anni companioni scamp, | notoj, or exernity the contined | ossen, roxowed when (| arrying out the inspection, | I |
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| | | | | | _ |
| Earthing and bonds | s of the inspection: Ig visual ok, | | | | ı |
| polarity MEC Imo ≤ 5 Ohm | - - | | | | 1 |
| M.E.N. link. | HRPA #0056368Y7 | rγ. | | | |
| | | | | | _ |
| High Risk Categor | · . | | | | |
| | 00 Part 2 - 6A(2)(a)() | Photovoltaic system - 6A(2) | la)(iv) | Becutoal medicatores-6A(2)(a)(| 4 |
| High voltage install | lation – fiA(2)(a)(f) | Heterdous-area - 6A(?)\$9)(v) | | 🖌 Mans work 🛛 54(2)(b) | |
| Other - please des | srelion – 5A(2)(a)(ii) (. | Animal stunning or meat co | ndikaning GA(2)(c) | | -1 |
| | | • | | | _ |
| Declaration | | | | | |
| vistaliative on which | t the work described above (Bee work has been done i | s, and will be / <u>por he</u> , when | cordance with the reg enlivened, electrically | ulations; and the Movel(ablaa / part : sale. | |
| (Note, Strike out or d | wie the inspection of the second | ds highlighted in rød øbove.) | | | |
| Signature | | | Dat | ^{ec} 10/03/21 | |
| MBINIA 04/17 | 7 | | | | - |
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SALE FOR EXOMPLEMENTS COMPLIANCE

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

and the second second

| A | Reference/Jecond | Number | | |
|---|--|--|----------------------------|---------------------------------------|
| \bigotimes | Nationwired green | hill | | |
| Issuer (Inspector) |) cetails: | | | |
| Name of inspector: | Gavin Bodey | | Registration #: | 1250728 |
| Email Address. | gavin@bodeyspark | .co.nz | Telephone: | 021 426 820 |
| Location of Instal | liation: | | | |
| Location details: | Greenhill park subd | ivision, Area M, Streellight 122 | atage 9-15 | |
| Location Type: | Domestic | Non-Domes is Accommodation | | ndusarial 🗌 Commercial |
| | Educational | Healthran | E | fiscellaneous (other) |
| Certifying Sleetri | cal Work and Certifica | ae of Compliance (Cati) details: | | |
| Name of Electrical workerfel | Yeti Martyn | | Registration # | E257490 |
| teret to ci gaj. | | | | EW121000 |
| CoC details: | Nationwired 167914 | Bireetight 122 | | 🔄 CoC(4) attached |
| | | | I | |
| Contifying Electri | cul Work and CoC det: | zils. | | |
| | | | | |
| System Bonding of | Pole and cabinet door. | • | , | • |
| Specify the regulati AS/NZS2000 part 2 | or.(s) and companion sta | ndard(s), or identify the certified desg | yn, followed whan o | Corrying out the inspection: |
| What are the result | s of the inspection | | | |
| Earthing and bondin polarity M.E.C. imp <.5 Ohn | ng visaualok, | | | : |
| MLE.N. IInk | FRPA #0058390 | 1219 | | |
| -tigh Sisk Catagor | | | | |
| Not to AS MITS 20 | офрат 2 - ба(%/ала | Biotocolisia custom - Catologica | 1 | |
| L High voltage instal | ov rat z – cruzyaju lahon – 64(7)(a)(i) | Hazandous area - 6A(2)(a)(v) | ł | Maios work – 6A(20b) |
| 🗋 Méins parellel gene | eration - 6A(2)(a)(h) | Animal stunning or meet conditi: | rring - 6/4(2)(c) | |
| 🔲 Other please des | krbe: | | | |
| Deciaration | | | | |
| l hereby confirm that àssiaillation on which | t the work described ab h the work has been dee | owe has been dene in / get is according to a when only | lance with the reg | ulations, and the workelfation / part |
| (Note: Strike out or g | leigentile in <u>applicabled</u> | tor is highlighted in red above.) | enest and the state of the | <i>1</i> 9 5 |
| Signature: | <u> </u> | | ' Dag | ^{2e} 10/03/21 |
| | 7 | | | |
| MB (4) 52 04/17 📛 | - | | | |



| A | Kefrrence/Record | Number: | | | |
|--|--|---|------------------------------|-----------------------|--------------------------|
| <u>(</u> | Nationwirad green | hill | | | |
| lesuer (Inspector) | details: | | | | |
| Name of inspector: | Gavin Bodey | | Registration #: | 1250728 | |
| Ernail Address: | gavin@bodeyspark. | ¢0.02 | Telephone: | 021 428 820 | |
| Location of Instal | lation | | | | |
| Location details: | Greenhill park subd | vision, Area M, Streellight 1 | 15 stege 9-15 | | |
| Location Type: | Domesk | 🛄 Non-Domestic Accommod | ation 🗌 | industriel | Commercial |
| | Educational | 🔄 Healthcare | Z | Mistellaneous (other) | |
| Carit Sying Floret (| eo. Work and Certifica | le at Compliance (t.oc) detail | s | | |
| Name of Electrical available to the second s | Yeli Martyn | | Registration # | E257490 | |
| ····· | | | | EW121000 | |
| CoC detail o | Nationwired 25788 Str | eettigrt 115 | I | 🗌 CoC(s) attact | bet |
| | | | I | | |
| Certifying Electric | ca. Work and Co2 data | 1.5 | | | |
| What was inspected | d: | | | | |
| New Installation, Ne | w Streeslight, with M.E.I | N. board, New Main Neutral be | r and cycus protectio | n, New Main Earthin | a : |
| System Bonding of | Pole and cabinet door. | | - | | - |
| • | | | | | |
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| | | | | | |
| Specify the regulari | opít) and companion sta | | lectory followed where | | |
| AS/N2S3600 part 2 | owith and companies is see | subjects), or solutionly the certified | | corrying out the mop | ecuoie: |
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| What are the result | s of the inspection: | | | | |
| Earthing and bonds | vg visual ok, | | | | |
| μωνannγ ΜΣChrms≼SDba | 7 | | | | |
| ME.N. Unk., | HRPA #0656376 | 24X | | | |
| | | | | | |
| Hump King Cotogo | ~~~ | | | | |
| | | | 10 X | (). | |
| | 00 Fait 2 - 64(2(48)) Istère - 64(2(546) | Photoworkarc system – 64(2) | ayini | | alarea — 6442 ((a)(vi) - |
| | noover – severajajajan Artifica – 68.07%-Atiii | Initiation area – avez (gaj(v) Initiation area – avez (gaj(v)) | | AL Markwohl - P | A(2)(D) |
| 🔲 Other – plaase des | crbe; | | CHARLES - GAICICS | | ····· |
| Declaration | L | | | | |
| Livereby confirm the | t the work described ab | ove bas been done in / 447 in at | contance with the se | gulations; and the #* | Heltation / part |
| eistadatron on which Wate: Strateous or o | n une work has been dor leiete the inconticable-s | re is, and will be f <u>unctio</u> , when and highlighted in cert above b | enüvened, eleçtriçaliy | (sele. | |
| Signature: [| <u> </u> | | | 10: 40:00:04 | : |
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Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

Sec. Sec. -- 5

| ~ | | | (F 01300010 (0 0 | ne cleaning (sale) | 91 |
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| ICX . | Reference/Report N | նորիսի։ | | | |
| డ్రు | Nationwired greenhi | | | | |
| lssuer (Inspector) | l octails | | | | |
| Name of Inspectors | Gavin Bodey | | Registration | # 250728 | |
| Ermil Address | gavin@bodaysperk.co |).nz | Telephane: | 021 428 820 |] |
| Secution of Justa | detion: | | • | | |
| Location details: | Greechill park subdivi | ision, Area M. Street ahl | 116 sisce 9-15 | | |
| Location Type: | Domestic | Non-Domestic Accommo | odation | 🗌 Industrial | |
| | Educational | Healthcare | | Miscellaneous (other |) |
| Certifying Floctri | nal, Work and Certificate | of Compliance (CoC) deta | : 15; | | |
| Name of Electrical | Yell Merlyn | | Registration | #: E257490 | |
| womenisi: | /·· | | 7 | EW121000 | |
| CoC details: | Nalionwinad 16799 Street | ellight 196 | | CoC(s) area | iche d |
| Specify the regulati ASINZS3000 part 2 | on(s) and companion stand | ard(s), or idensity the certified | d des e n, followed v | viten cartying out the in | spection |
| What are the result Earthing and bondir polarity M.E.C. imp < 5 Ohn M.E.N. link. | s of the inspection: Ig visual ok, n HRPA #00583772 | ex | | | |
| | | | | | |
| i≪gh Risk Catego | ry. | | | | |
| NOL (0 AS/N25 30 | 00 Part 2 64(2){a 1} | 🔄 ?hosovoltói: system – 64(2 | ()(a)(a) | - Hectrical me | dical area — 6A(2)(a)(xi) |
| High voltage instal Maint constitutions. | lation – 64(2)(2)(1)) Herion – 64(2)(2)(1) | 🔄 Harardous area — 64(2)(ø)(; | v) | Mains work | ea(3Kd |
| Other – please des | kribe. | 🔄 Animai Amoning or Lie at o | enalecente - ewicze | <u></u> | |
| | | | | | |
| hereby confirm the base flatton on which | t the Work described abov h the Work has been done | e has been done##/arcm.a Is, and with be/ <u>writhe</u> , when | Accordance with IN n entivened, electra | vé regulations; and the colly sata. | Mstellation /pert |
| Note. Strike out or a | lelete the isopolicable par | ds highlighted in red above., | J | | |
| signature | | | | Date: 10/03/21 | |

atter and the second of the Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

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|--|---|--|-----------------------------------|---------------------------------------|
| <i>K</i> A | Reference/Record | Namber: | | |
| Ś | Nationwired green | hiai | | |
| _[ssuce hspector] |) dotail 🤉 | | | |
| Name of Inspector. | Gavin Bodey | | Registration #: | 1250728 |
| Email Address: | gavin@bodeyspark | CO.112 | Telephone: | 021 428 820 |
| Local on of insta | llation: | | | |
| Location details: | Greenhill park subdi | vision, Area M, Streellight | 117 slage 9-15 | |
| Location Type: | Domestic | Non-Domestic Accomm | odecilon 🗌 k | xfustrial 📃 Çommercia |
| | Educational | Healthcare | Z • | tiscella neous (other) |
| Cortifying them: | eel Work and Certificat | to of Complance (CaC) dea | : ils: | |
| Name of Electrical workerisk | ≚eli Mariyn | | Registration #: | E257490 |
| | | | _ | EW121000 |
| CoC datails: | Nationwired 15799 Str | aaliight 117 | - | CoC(s) attached |
| | | | | |
| Certifying Electri | cal Work and CoC deta | lls. | | |
| | | | | |
| ASM2S3000 part 2 | onitit and could be how 2690 | Garojs), or identity the centitie | a alesign, taikowed when c | Brighing dut the inspection |
| What are the result Earthing and bondin polarity M.E.C. Imp. <.5 Ohn M.E.N. link , | s of the inspection. Ig visual ok. D HRPA #0058379 | | | |
| | | | | |
| High Kisk Cotego | ту: | | | |
| Not to AS/NZS 30 | 00 Paτ 2 - 64(2)(a)() | Photovollac system - 64() | (Xa) (* .) | Gorrical medical area-64(2)(a)(vi) |
| 🔛 High voltage instal 🔲 Mairs nacallel servi | laice — té(2)(a)(i) mailte — éé(2)(a)(i) | Image: Magazine area - SA(2)(a) [| v) an delanda a - 66/19/65 | Mains work – 64(2)(b) |
| Other – please des | orber | | n rakoniğ - rədeliri | |
| Declaration | | | | |
| I hereby confirm that | t the work described abo | ve has been done in / poten, i | eccordance with the reg | ulations; and the intrediction / part |
| estateation on which (Note: Strike out or s | n me work has been don Welete the manofic ablow | e o, and will be / <u>untit</u> e, whe ords (hahilehted in radia brow | n entivened, electricality": I | 681e. |
| Signature | | | Dar | * 10/03/21 |
| 1101 11 32 04/15 C | 7 | $\overline{}$ | | |

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| | Reference/Record Number; | | |
|--|---|-----------------------------------|---|
| \mathbb{Z} | Nationwined greenhill | | |
| lssver (inspector) | cetails | | |
| Name of Inspector: | Gavin Boday | Registration # | 1250728 |
| Email Address; | gavin@bodeysperk.co.nz | Telephone | 021 426 820 |
| Local on of instal | lution: | | |
| Location details: | Greenhill park subdivision. Area M. Street ight 1 | 18 slage 9-16 | |
| Location Type: | Domestic Inten-Domestic Accommod | atko 🚺 | Industrial 🛄 Commercia |
| | Glucational Healthcare | | Miscelleneous (other) |
| Contribying Electric | ul Work and Certificate of Compliance (CoC) detail | :: | |
| Nems of Electrical worker(s) | Yeti Martyn | Registration # | E257490 |
| 101100 04 | | | EW121000 |
| CoC details | Nationwired 157910 Streetlight 118 | | 🔄 CoC(s) attached |
| System, Bonding of Specify the regular ASINIZS 3000 part 2 | Pole and cabinel door on(s) and companion standard(s), or scentify the certified o | Sysign, followed when | . carryan <u>e</u> ແມ່, the inspection: |
| what are the tesu. | a visual ok. | | |
| Earthing and bondh polenty M.E.C. Imp <.5 Ohn M.E.N. link . | NRFA 40058382P4F | | |
| Earthing and bordh polenty M.E.C. Imp <.5 Ohr M.E.N. link . High Risk Catego Not to ASNZS 30 High voltage instal Mains parallel gen | N NRPA 40058382P4F (2) 00 Part 2 – 6A(2)(a)(0) Phonovoltaic system – 6A(2)(1ation – 6A(2)(a)(0) Hazarcous area – 6A(2)(a)(v) ration – 6A(2)(a)(0) Animal stumning or meat can to be | (a)¢v} rokoning - 44(2)(c) | ☐ Electrical medicatares – 6A(2)(a)(vi) √] Mains work – 5A(2)(b) |
| Earthing and bordh polenty M.E.C. Imp <.5 Ohr M.E.N. link . High Itisk Catego Not to ASINZS 30 High voltage insta Mains parallel gen Other - please des Declaration | NRFA #0058382P4F SS OD Part 2 - 6A(2)(a)(0) Inition - 6A(2)(a)(0) | (a)\$v} 1:58:0n-ng - 4%(?));c) | ☐ Electrical medicaLarea – 6A(2))a((vi) √] Mains work – 5A(2)(b) |

SEELS LODMICTINES (COMPLISHED)

Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

Free Stranger

| A | Reference/Second | Nerter | | |
|--|---|--|---|--|
| (2) | Nationwired green | háli | | |
| Issuer (Inspector) | i details | | | |
| Name of Inspector | Gavin Bodey | | Registration 4: | 1250728 |
| Email Address; | gavin@bodeyspark. | 60.NZ | Telephone | 021 428 820 |
| Location of Instal | llation. | | | |
| Location details: | Greenhill park subd | vision, Area M, Streetlight 11: | l stago 9-15 | |
| Location Type: | Domesik | Non-Domestic Accommodat | kn 🔲 | ndustrial 🛄 Communial |
| Contl ^a ving Pletoni | Call Mark and Considing | El ef Foruntiacus/CoCistata Jo | | Missiellioneous (ather) |
| theme of Gertrical | Ver Menter | re or de risinan se feració d (1818) | | |
| vorter(s): | reu manyo | i | Registration 9: | E257490 |
| Colf details | Mahaawaat 167049. S | | | EW121000 |
| | Maponying 137812 2 | ectadu is | | CoC(s) attached |
| Certifying Electri | rat Work and CoC det- | il s | | |
| What was monacted | • | | | |
| New Installation, Ne | " w Sl'ealight with M.E.I | N. toard, New Main Neutral bar a | nd dreuti protection | New Main Facility |
| System Bonding of | Pale and cabinet door | | | |
| : | | | | |
| | | | | |
| Specify the regulation | on(s) and companion star | viard(s), or identify the certified de- | ues followed when | caroing out the lange live |
| ASINZS3000 part 2 | | and the second second se | | the 12 million of the inspections |
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| What are the result: Eaching and begins | of the inspection: | | | |
| polarity | ig visualiok. | | | |
| M.E.C. imp <.5 Ohr | | | | |
| n, g. N. 101, | HKMA BOLSBOBS | AON | | |
| | | | | |
| High Risk Categor | <u>′у. </u> | | | _ |
| Not to AS/NZS 30 | DG Part 2 - 64(2)(a))) | hatovokai: system - 64(2)(a) | k) | Electrical medical area – 6.4(2)(a)(vi) |
| 🔛 High vollage noral Dibleice comilei coor | lali(m – 64(285)⊕) ustina – 48 (20612:1 | Hazardovis area – 5A(2)(a)(v) | | 🖌 Mains work – 64(2)(b) |
| C) Other – please des | age: : | | *014ng - 6A(2)(;) | |
| | | | | |
| Sectaration | | | | |
| I hereby confirm that installation on which | r the work described abo 1 the work has been don | we has been done in / pertinacto + is, and will be / <u>post bo</u> , when ep | rdance with the reg ivened, electrically | ulations; and the installation / part |
| Note:Strike out or d | eletethe waoodicatelog | ords bigblighted in red above.) | | |
| Signature | | | Ce4 | ^{le:} 10/03/21 |
| | 7 | | | |

F3.10 RAMM STREETLIGHT DATA

(to be completed for each change in streetlight type)

| Subdivision and stage/Contract | GREENHILL PARK STAGE 14- |
|--|--|
| Number of street lights of thi type | s |
| General | |
| Date Installed | 22/04/2021 |
| Control Type | Network Streetight Feed / Photocell / Other: |
| Origin of Power Supply (| Streetlight Circuit Metered Power Supply |
| Light | |
| Manufacturer | VIZULO (IBEX LIGETING) |
| Model | MINI STORK |
| Total Power Consumption (W) | 22.3W |
| Light Height (m) | Gm |
| Tilt Angle (º Degrees) | ZER DEGREES |
| Outreach | |
| Outreach Type | Curved / Mitre /Other Decorative M ILFORD |
| Outreach Distance (m) | Im |
| Pole | |
| Manufacturer | IBEX LIGHTING |
| Туре | Octagonal (Circular) Power / Other Decorative: Tapered |
| Pole Height (m) | Gm |
| Material | Galvanised Steel / Steel / Other: |
| Costing | N/A (Painted) Powder Coated 10 yr Warranty |
| Colour (if coated) | BLACK |
| Mounting | Frangible ground plant) / Shear Base |
| | |

DY Manufacturer's Warranty documents for Poles, Lights and Coatings attached.

Shown on as-built drawings.

APPENDIX 8

Miscellaneous Check Lists and Producer Statements

- Subdivision Works Clearance Application Form
- Subdivision Certification Application Form
- Contractor Producer Statement Form
- Land Transfer Plan LT 561397
- Schedule of Engineering Value
- Consultant Certification Statement Form
- Asbuilt Statement Form





Subdivision Works Clearance Application Form

| Agent details (where a | n agent is applying on beh | nalf of the consent ho | lder) |
|---|--|---|---|
| | | | |
| Agent name: | | | |
| Agent company: | | | |
| Postal address: | | | |
| Telephone: | | | |
| Email: | | | |
| | | | |
| Subject Site | | | |
| | | | |
| Site address: | | | |
| Legal description: | | | |
| Resource consent number: | | Date con | sent issued: |
| Stage (if applicable): | | No. of lots (excluding | roads/reserves): |
| | | - | |
| Clearances required | | | |
| | | | |
| Certification required: | C Engineering (| Landscaping | Other (please specify) |
| | | | |
| - I | | | |
| Fees and payment | | | |
| You will be charged for the t site visits. Refer to Fees and | time spent by staff in prep Charges, as set out on ou | paring for and underta ar website at <u>www.ha</u> r | aking engineering works clearance <u>milton.govt.nz</u> for costs. |

Payment of fees is due upon invoice which will be issued at s224c subdivision certification stage.

Agent declaration

As a registered professional surveyor/planner, I confirm that:

- I am satisfied that the engineering and landscaping physical works have been completed in accordance with the Resource Consent
- I accept that my application may be returned if there are outstanding agreements relating to development contribution remissions or valuation of land, or if all information required for works clearance is not submitted

Planning Guidance

Hamilton City Council Phone: 07 838 6699

Questions?

For general planning guidance enquiries, contact the duty planner weekdays 8am – 4.45pm Email: planning.guidance@hcc.govt.nz

Send

Send applications to <u>subdivision@hcc.govt.nz</u>, drop off via the duty planner at the Municipal Building Garden Place, between 8am – 4.45pm, Monday to Friday or post to Planning Guidance Subdivisions, Hamilton City Council, Private Bag 3010, Hamilton 3240.

Documentation to provide:

- The attached checklist
- All required information listed in the checklist

OFFICE USE ONLY

O Documentation saved to TRIM

Authority updated

 \bigcirc Acknowledgement sent

Planning Guidance

Hamilton City Council Phone: 07 838 6699

Questions?

For general planning guidance enquiries, contact the duty planner weekdays 8am – 4.45pm Email: planning.guidance@hcc.govt.nz



Subdivision Certification Application Form

| Agent details (where a | in agent is applying on be | half of the consent hold | er) |
|---|--|--------------------------|-------------|
| Agent name: | | | |
| Agent company: | | | |
| Postal address: | | | |
| Telephone: | | | |
| Email: | | | |
| Preferred means of contact: | : O Ma | il 🔷 Email | OPhone |
| Consent holder nam | าย | | |
| Consent holder name: | | | |
| Postal address: | | | |
| Telephone: | | | |
| Email: | | | |
| | | | |
| Debtor details (for inv | oicing) | | |
| Debtor is: | ⊖ Agent ⊖ Ow | ner Other (plea | se specify) |
| Debtor's Name: | | | |
| Debtor 3 Name. | | | |
| Postal address: | | | |
| Postal address: | | | |
| Postal address: Subject Site | | | |
| Postal address: Subject Site Site address: | | | |
| Postal address: Subject Site Site address: Legal description: | | | |
| Postal address: Subject Site Site address: Legal description: Resource consent number: | | Stage Numl | ber: |
| Postal address: Subject Site Site address: Legal description: Resource consent number: | | Stage Numl | ber: |
| Postal address: Subject Site Site address: Legal description: Resource consent number: Certification require | | Stage Numl | ber: |
| Postal address: Subject Site Site address: Legal description: Resource consent number: Certification required: | ed | Stage Numl | ber: |
| Postal address: Subject Site Site address: Legal description: Resource consent number: Certification required: | ed S223 S22 Other (please specify) | Stage Numl | ber: |

Planning Guidance

Hamilton City Council Phone: 07 838 6699 For general planning guidance enquiries, contact the duty planner weekdays 8am – 4.45pm Email: planning.guidance@hcc.govt.nz

Questions?

Condition(s) of consent requirements

As a registered professional surveyor/planner, I confirm that:

- 1. For larger/complex consents, I have attended a pre-application meeting with Hamilton City Council staff to review my draft s224c application.
- 2. I hereby attach all information required to satisfy Hamilton City Council that all conditions specified in the subdivision consent referenced above (in terms of certification required) have been met.
- 3. I accept that where it is found that not all information required under clause 2 above is provided, this application shall be returned to the address for re-lodgement.
- 4. Where an engineering or similar professionally prepared plan and supporting information (such as landscaping or ecological plan) has to be approved by council, I have attached written evidence of such approval.
- 5. Where evidence of completion and approval of all physical works is required (e.g. construction of services, landscape planting). I have attached written evidence of such approval.
- 6. The required Landonline electronic certification documentation have been prepared and submitted to Hamilton City Council for approval.

Acceptance

I confirm that all of the above have been satisfied.

Name:

Date:

Send

Send applications to <u>subdivision@hcc.govt.nz</u>, drop off via the duty planner at the Municipal Building Garden Place, between 8am – 4.45pm, Monday to Friday or post to **Planning Guidance Subdivisions**, **Hamilton City Council, Private Bag 3010, Hamilton 3240**.

Remember to attach:

Conditions of subdivision consent documentation

Questions?

Works clearance certificate

Planning Guidance

Hamilton City Council Phone: 07 838 6699

For general planning guidance enquiries, contact the duty planner weekdays 8am – 4.45pm Email: planning.guidance@hcc.govt.nz

NZS 3910:2013 Conditions of contract for building and civil engineering construction

SCHEDULE 6 – FORM OF PRODUCER STATEMENT - CONSTRUCTION

| ISSUED BY | ONLINE CONTRACTORS 2016 LTD |
|------------|---|
| то | CHEDWORTH PROPERTIES LTD |
| IN RESPECT | GREENHILL PARK STAGE 14 |
| OF | INCLUDING: SUBDIVISION CIVIL WORKS, ROADING AND EARTHWORKS |
| АТ | GREENHILL PARK, HAMILTON |

ONLINE CONTRACTORS 2016 LTD has contracted to CHEDWORTH PROPERTIES LTD to carry out and complete certain building works in accordance with a Contract titled GREENHILL PARK STAGE 14.

I Daniel Hopper a duly authorised representative of ONLINE CONTRACTORS 2016 LTD believe on reasonable grounds that ONLINE CONTRACTORS 2016 LTD as carried out and completed:

🗹 All

□ Part only as specified in the attached particulars of the contract works in accordance with the Contract.

Dan Hopper

Signature of Authorised Agent on behalf of

Date

3/5/21

ONLINE CONTRACTORS 2016 LTD PO BOX 21187 ROTOTUNA HAMILTON 3256

| Hamilton City Develop | oment Manual |
|---|---------------------|
| Volume 4 : Quality Systems for Land Development | Part 9 — Appendices |
| Authorised by : Design Services Manager | |

APPENDIX 4 ii)

PRODUCER STATEMENT — CONSTRUCTION

CONTRACTOR'S CERTIFICATE UPON COMPLETION OF SUBDIVISIONAL WORK

| Online Contractors 2016 | |
|---|--|
| | (Contractor) |
| TO: Chedworth Properties | |
| | (Principal) |
| TO BE SUPPLIED TO: Hamilton City | (Territorial Authority) |
| IN RESPECT OF Greenhill Park Stage | |
| (Desc | ription of subdivisional work) |
| AT : | e St, Greenhill |
| | (Address) |
| Online Contractors 2016 Ltd | has contracted to |
| (Contractor) | (Principal) |
| to carry out and complete certain subdivision | al work in accordance with a contract, titled Contract No |
| for | ("the contract") |
| Dan Hopper Ia duly au | Online Contractors 2016 |
| (Duly Authorised Agent) | (Contractor) |
| hereby certify that Onlne Contractors 2016 | |
| has carried out and completed the subdivisi accordance with the contract. | ional works, other than those outstanding works listed below, in |
| Dan Hopper (Signature of Authorised Agent on behal | 3rd May 2021 f of) |
| Online Contractors 2016 | |
| (Contractor) | |
| PO Box 21187, Rototuna, | |
| (Address) | |
| Outstanding Works | |
| | |
| | |

.....





Title Plan - LT 561397

| Sorvey Number | LT 561397 |
|----------------------|--|
| Surveyor Reference | 21879 - Greenhill Park - Stage 14 |
| Surveyor | Scott Rodney Carley |
| Survey Firm | Shrimpion and Lipinski Limited Partnership |
| Surveyor Declaration | i |

Survey Details

 Dataset Description
 Lots 328, 375 - 406 and 604 Being a Subdivision of Lot 707 DP 560839

 Status
 Initiated

 Land District
 South Ateckland
 Survey Class
 Class A

 Submitted Date
 Survey Approval Date

Territorial Authorities

Hamilton City

Created Parcels

| Parcels | Parcel |
|-------------------------------|---------|
| Lot 328 Deposited Plan 561397 | Fee Sin |
| Lot 375 Deposited Plan 561397 | Fee Sm |
| Lot 376 Deposited Plan 561397 | Fee Sin |
| Lot 377 Deposited Plan 561397 | Fee Sim |
| Lot 378 Deposited Plan 561397 | Pee Sur |
| Lot 379 Deposited Plan 561397 | Fee Sim |
| Lot 380 Deposited Plun 561397 | Fee Sur |
| Lot 381 Deposited Plan 561397 | Fee Sin |
| Lot 382 Deposited Plan 561397 | Fee Sur |
| Lot 383 Deposited Plup 561397 | Fee Sin |
| Lot 384 Deposited Plan 561397 | Fee Sur |
| Lot 385 Deposited Plup 561397 | Fee Sur |
| Lot 386 Deposited Plan 561397 | Fee Sin |
| Lot 387 Deposited Plun 561397 | Pee Sur |
| Lot 388 Deposited Plan 561397 | Fee Sin |
| Lot 389 Deposited Plun 561397 | Pee Sur |
| Lot 390 Deposited Plan 561397 | Fee Sin |
| Lot 391 Deposited Plan 361397 | Fee Sur |
| Lot 392 Deposited Plan 561397 | Fee Sim |
| Lot 393 Deposited Plan 501397 | Fee Sur |
| Lot 394 Deposited Plan 561397 | Fee Sur |
| Lot 395 Deposited Plan 561397 | Fee Sin |
| Lot 396 Deposited Plan 561397 | Fee Sur |
| Lot 397 Depisted Plan 561397 | Fee Sin |
| Lot 398 Deposited Plan 561397 | Fee Sur |
| Lot 309 Deposited Plan 561397 | Fee Sin |
| Lot 400 Deposited Plan 361397 | Fee Sm |
| - | |

| Parcel Intent | Area | RT Reference |
|------------------|-------------------|--------------|
| Fee Simple Title | 0.0460 Ha | 993190 |
| Fee Sniple Title | 0 0335 H a | 993191 |
| Fee Simple Title | 0.0381 Ha | 993192 |
| Fee Simple Title | 0.0310 Ha | 993193 |
| Ree Simple Title | 0.0248 Ha | 993194 |
| Fee Simple Title | 0 0228 Ha | 993195 |
| Ree Simple Title | 0.0224 Ha | 993196 |
| Fee Simple Title | 0.0222 Ha | 993197 |
| Fee Simple Title | 0.0218 Ha | 993198 |
| Fee Simple Title | 0.0300 Ha | 993199 |
| Fee Sumple Tutle | 0-0400 Ha | 993200 |
| Fee Simple Title | 0.0300 Ha | 993201 |
| Fee Simple Title | 0.0300 Ha | 993202 |
| Fee Simple Title | 0.0346 Ha | 993203 |
| Fee Simple Title | 0.0450 Ha | 993204 |
| Ree Simple Title | 0 0349 Ha | 993205 |
| Fee Simple Title | 0.0450 Ha | 993206 |
| Fee Simple Title | 0 0323 Ha | 993207 |
| Fee Simple Title | 0.0300 Ha | 993208 |
| Fee Sumple Title | 0.00906 Ha | 993209 |
| Fee Simple Title | 0.0400 Ha | 993210 |
| Fee Simple Title | 0.0305 Ha | 993211 |
| Fee Simple Title | 0.0342 Ha | 993212 |
| Fee Simple Tide | 0 0349 H a | 993213 |
| Fee Simple Title | 0.0400 Hz | 993214 |
| Fee Simple Title | 0.0319 Ha | 993215 |
| Fee Smole Title | 0 0322 Ha | 993216 |




Title Plan - LT 561397

Created Parrels

Parcels

Lot 401 Deposited Plan 561397 Lot 402 Deposited Plan 561397 Lot 403 Deposited Plan 561397 Lot 404 Deposited Plan 561397 Lot 405 Deposited Plan 561397 Lot 406 Deposited Plan 561397 Lot 604 Deposited Plan 561397

Total Area

l'arcel Intent

Fee Simple Title Fee Simple Title Fee Simple Title Fee Simple Title Fee Simple Title Fee Sumple Title Vesting on Deposit for Road

| Area | KT Reference |
|---------------------|--------------|
| 0 (1450 Hu | 993217 |
| 0.0457 Ha | 993218 |
| $0.0407 H_{\rm P}$ | 993219 |

0.0406 Hz 993220 0.0406 Ha 993221 0.0407 Hu 993222 0.4540 Ha

1 3960) Ha







SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

Hamilton City Council will use these values to record the assets once ownership has transferred following approval of s224c certification.

GENERAL DETAILS

| Subdivision name | e: | | | |
|-------------------|-----------------------|---------------|--------------------------|----------------|
| Site address: | | | | |
| HCC application | number: | | | |
| DPS number(s): _ | | | | |
| Developername | : | | | |
| Postal address: _ | | | | |
| Suburb: | | | | |
| City: | | | Postal code: | |
| This informatior | n is certified as bei | ng true and c | orrect | |
| Completed by: | Land owner | Agent | Other (please specify) _ | |
| Name: | | | | |
| Signature: | Barry Pearson | | | _ Date signed: |
| | | | | |

SEND

Email this to subdivision@hcc.govt.nz. Alternatively, if you are attending a works clearance pre-application meeting, please bring this completed form with you.

SUMMARY OF LAND AND ASSETS TO VEST IN COUNCIL (excluding GST)

| ASSET TYPE | | COST/VALUE | REMOVE COUNCIL'S CONTRIBUTION | TOTAL VESTED |
|-----------------------|-----|------------|-------------------------------|--------------|
| Land | (A) | | | |
| Water supply | (B) | | | |
| Wastewater | (C) | | | |
| Stormwater | (D) | | | |
| Roading | (E) | | | |
| Parks | (F) | | | |
| Other | (G) | | | |
| TOTAL (excluding GST) | | | | |



PLANNING GUIDANCE

For general planning guidance enquiries, contact the duty planner weekdays 8am - 4.45pm. **Email:** planning.guidance@hcc.govt.nz **Phone:** 07 838 6699

SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

LAND, WATER SUPPLY, WASTEWATER AND STORMWATER (All values are to be exclusive of GST)

| LAND (A) | DPS | MEASURE (AREA M2) | COST/VALUE | COUNCIL'S CONTRIBUTION |
|------------------------|-----|-------------------|------------|---------------------------|
| Roading | | | | |
| Recreation reserve | | | | |
| Local purpose reserve | | | | |
| Other - please specify | • | · | | |
| | | | | |
| | | TOTAL | | |
| | | TOTAL VESTED | | |

| WATER SUPPLY (B) | MEASURE | | CO | ST/VALUE | COUNCIL'S CONTRIBUTION |
|------------------------|---------|--|----|----------|---------------------------|
| Mains | Metres | | | | |
| Ridermains | Metres | | | | |
| Services | No. | | | | |
| Hydrants | No. | | | | |
| Sluice and peat values | No. | | | | |
| Other - please specify | | | | | · |

| TOTAL | |
|--------------|--|
| TOTAL VESTED | |

| WASTEWATER (C) | MEASURE | | COST/VALUE | COUNCIL'S CONTRIBUTION | | |
|------------------------|-----------|-----|------------|---------------------------|--|--|
| Mains | Metres | | | | | |
| Manholes | No. | | | | | |
| Connections | No. | | | | | |
| Other - please specify | | | | | | |
| | | | | | | |
| | TOTAL | | | | | |
| | TOTAL VES | TED | | | | |

| STORMWATER (D) | MEASURE | | COST/VALUE | COUNCIL'S CONTRIBUTION | |
|------------------------------------|-----------|--|------------|---------------------------|--|
| Mains | Metres | | | | |
| Manholes | No. | | | | |
| Connections | No. | | | | |
| Outfalls (inlet/outlet structures) | No. | | | | |
| Wetland/rain garden planting | Area (m²) | | | | |
| Other - please specify | | | | | |
| | | | | | |
| | TOTAL | | | | |

TOTAL VESTED



For general planning guidance enquiries, contact the duty planner weekdays 8am - 4.45pm. **Email:** planning.guidance@hcc.govt.nz **Phone:** 07 838 6699



SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

ROADING, PARKS AND OTHER (All values are to be exclusive of GST)

| ROADING (E) | MEASURE | | COST/VALUE | COUNCIL'S CONTRIBUTION | |
|---------------------------------------|-----------|--|------------|---------------------------|--|
| Pavement | Area (m²) | | | | |
| Surfacing | Area (m²) | | | | |
| Kerb and channel (full height) | Metres | | | | |
| Berms | Area (m²) | | | | |
| Footpaths (inc. walkways & cycleways) | Area (m²) | | | | |
| Vehicle crossings (excl. residential) | Area (m²) | | | | |
| Road drainage (catchpits & leads) | No. | | | | |
| Street lighting | No. | | | | |
| Signage | No. | | | | |
| Subsoil drains | Metres | | | | |
| Tactile pavers | No. | | | | |
| Parking and bus bays | Area (m²) | | | | |
| Sundries (bridges/culverts/walls/etc) | No. | | | | |
| Other - please specify | | | | | |
| | | | | | |
| | TOTAL | | | | |

| IUTAL | | |
|-----------|-----|--|
| | | |
| TOTAL VES | TED | |

| PARKS (F) | MEASURE | | COST/VALUE | COUNCIL'S CONTRIBUTION |
|-----------------------------|-----------|---|------------|---------------------------------------|
| Bollards | No. | | | |
| Landscaping (trees, shrubs) | Area (m²) | | | |
| Paths | Area (m²) | | | |
| Fencing | Metres | | | |
| Play equipment | No. | | | |
| Seats/benches/tables | No. | | | |
| Other - please specify | | - | · | · · · · · · · · · · · · · · · · · · · |

| TOTAL | |
|--------------|--|
| TOTAL VESTED | |

| OTHER (G) | MEASURE | | MEASURE | | COST/VALUE | COUNCIL'S CONTRIBUTION |
|------------------------|--------------|--|---------|--|------------|---------------------------|
| Buildings | No. | | | | | |
| Other - please specify | | | | | | |
| | | | | | | |
| | TOTAL | | | | | |
| | TOTAL VESTED | | | | | |



PLANNING GUIDANCE

For general planning guidance enquiries, contact the duty planner weekdays 8am - 4.45pm. **Email:** planning.guidance@hcc.govt.nz **Phone:** 07 838 6699

Strategic Development Unit Works Clearance Checklist

Note: Please refer to the Regional Infrastructure Technical Specifications for testing requirements and guidelines.

Consent Ref: 11.2018.6632

Site Address: Webb Drive, Greenhill Park

New Street Name: Stage 14 – Greenhill Park

Development Engineer:

| Documentation | Completed | Date | Notes |
|--|-----------|-----------|-------------------------------------|
| General | | • | · |
| GST register for all vested asset (PG L4 and PG L5) | Y | 20/5/2021 | Attached |
| Upsize contribution documentation | N/A | | |
| WEL completion certificate | Y | 10-5-2021 | Attached |
| Gas completion certificate (where necessary) | Y | 7-4-2021 | Attached |
| UFF completion certificate | Y | 22-4-2021 | Attached |
| Roading | | | • |
| Completion Certificate (PS4 or similar) | Y | Various | Similar Attached |
| Subgrade | | | |
| Stringing or survey of prepared surface (relative shape and height) | Y | 3-5-2021 | Attached (topo surface) |
| Compaction (natural subgrade – Scala, SIL sand- Scala, SIL brown rock – Clegg) | Y | 3-5-2021 | Attached (Clegg) |
| Subbase | | | No subbase aggregate in Stage 14 |
| Stringing (relative shape and height) | N/A | | |
| - Compaction (clegg) | N/A | | |
| - Nuclear densometer (NDMS) | N/A | | |
| Basecourse | | | |

| - Stringing (relative shape and height) | Y | 29-4-2021 | Attached |
|--|-----|------------|----------|
| - Compaction (clegg) | Y | 28-4-2021 | Attached |
| - Nuclear densometer (NDMS) | Y | 23-4-2021 | Attached |
| - Benkelman beam test | Y | 23-4-2021 | Attached |
| RAMM Pavement | Y | 28-4-2021 | Attached |
| RAMM Surfacing | Y | 3-5-2021 | Attached |
| Streetlight | • | | |
| Asbuilt Plan | Y | 20/5/2021 | Attached |
| RAMM Streetlight | Y | 22/4/2021 | Attached |
| Copy of approved application for new connection | Y | 10/3/2021 | Attached |
| Producer Statement | Y | 20/05/2021 | Attached |
| CoC or ESC signed by authorised person | Y | 20/05/2021 | Attached |
| Asbuilt in format approved by WEL | Y | 10/5/2021 | Attached |
| Confirmation of practical completion or 224c sign off | Y | 10/5/2021 | Attached |
| WEL Networks approval sheet (Written confirmation from WEL for the acceptance of all underground cabling and circuitry) | Y | 10/5/2021 | Attached |
| Manufacturer's Warranty Documents | Y | 4/3/2021 | Attached |
| Road Drainage | | | |
| Asbuilt plan (subsoil/catchpit/leads | | 20/5/2021 | Attached |
| Secondary flow path | | 20/5/2021 | Attached |
| Signage and Marking Asbuilt Plan | | 20/5/2021 | Attached |
| Water | | | |
| Water as-built plan | | 20/5/2021 | Attached |
| Data Sheet | | 20/5/2021 | Attached |
| Pressure test certificate | Y | 4/2/2021 | Attached |
| DXF (if >2 lots) | N/A | | |

| | Y | 16/2/2021 | Attached |
|---|----------|------------|---------------------------|
| Bacteriological test result | Ν/Δ | | |
| Hydrant test (where necessary) | | | |
| | | | |
| | N/A | | Beca design |
| F6.1 Water reticulation design confirmation, | | | |
| F6.2 Water reticulation pipe laying checklist, | 7/4/2021 | | Attached |
| F6.3 Water reticulation final inspection checklist | 7/4/2021 | | Attached |
| Wastewater | | | - |
| Wastewater as-built plan | | 20/5/2021 | Attached |
| Data sheet | | 20/5/2021 | Attached |
| DXE (if >2 lots) | | N/A | |
| CCTV investigation | Y | 30-4-2021 | Submission email attached |
| Pipe Pressure test | Y | 16/11/2020 | Attached |
| Manhole pressure test | Y | 16/11/2020 | Attached |
| Trench backfill | Y | Not dated | Attached (Clegg results) |
| RITS checklist | | | |
| F5.1 wastewater design confirmation, | N/A | | Beca design |
| F5.2 Wastewater pipe laying checklist, | Y | 16/12/2020 | Attached |
| - F5.3 Wastewater manhole checklist, | Y | 16/12/2020 | Attached |
| F5.4 Wastewater trench backfill test summary, | Y | 16/12/2020 | Attached |
| F5.6 Wastewater pipe network- final inspection checklist, | Y | 9/3/2021 | Attached |
| F5.7 Pump station control programming checklist | N/A | | |
| Stormwater | | | |
| Stormwater as-built plan | | 20/5/2021 | Attached |

| | | 20/5/2021 | Attached |
|-------------------------------------|--------|------------|----------------------------|
| Data sheet | | | |
| | N/A | | |
| DXF (if >2 lots) | | | |
| | N/A | | |
| Wetland as-built plan (see RITS for | | | |
| minimum details required) | | | |
| | | | To be provided |
| Completed planting plan | | | |
| (confirmation that plants are in | | | |
| accordance with the accepted plan) | NI / A | | |
| Proprietary device completion | N/A | | |
| certificate | | | |
| | N/A | | |
| Final operation and maintenance | | | |
| manual | | | |
| | Y | 30-4-2021 | Submission email attached. |
| CCTV investigation | | | |
| | Y | Not dated | Attached (Clegg Results) |
| Trench backfill | | | |
| | | | |
| RITS checklist | | | |
| | N/A | | Beca design |
| - F4.1 Stormwater design | | | |
| checklist, | | | |
| | Y | 14/12/2020 | Attached |
| - F4.2 Stormwater pipe laying | | | |
| checklist, | V | 14/12/2020 | Attacked |
| - E4.3 Stormwater manhole | Y | 14/12/2020 | Attached |
| checklist | | | |
| | v | 14/12/2020 | Attached |
| - F4.4 Stormwater trench | • | 14/12/2020 | Attached |
| backfill compaction test | | | |
| summary, | | | |
| | Y | 14/12/2020 | Attached |
| - F4.5 Stormwater catchpit | | | |
| checklist, | | | |
| | Y | 9/3/2021 | Attached |
| - F4.6 Stormwater pipe | | | |
| network final inspection | | | |
| checklist, | | | |
| EA 7 Wotland construction | N/A | | |
| - F4.7 Wetland construction | | | |
| | Ν/Δ | | |
| - F4.8 Wetland and | איי | | |
| inspection/Sign off checklist | | | |
| | N/A | | |
| - Final Operation and | | | |
| Maintenance Manual | | | |
| | N/A | | |
| - Final Water Impact | | | |
| Assessment | | | |

| | As Built plan | Sign off to be supplied from |
|------------------------------|---------------|------------------------------|
| Parks and Open Spaces Street | | НСС |
| trees/planting sign off | | |
| Bond | | |
| | N/A | |
| Quote | | |
| | | To be supplied from HCC |
| Signed bond form | | |
| | N/A | |
| Other: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Hamilton City Development Manual | | |
|---|---------------------|--|
| Volume 4 : Quality Systems for Land Development | Part 9 — Appendices | |
| Authorised by : Design Services Manager | | |

APPENDIX 4 iii)

HAMILTON CITY COUNCIL

CERTIFICATE FOR AS-BUILT DRAWINGS

Greenhill Park - Stage 14 DEVELOPMENT

I, <u>Barry Pearson</u>, Chartered Professional Engineer/Surveyor, hereby certify that all of the information shown on the "as built" drawings and spreadsheets is correct as to location (x, y and z co-ordinates), size, materials. This applies to the following "as built" drawings:

| Drawing No. | Title |
|-----------------------|--|
| 21879-M-14-WW1-Rev AB | Stage 14 Wastewater Asbuilt Plan |
| 21879-M-14-W1 Rev AB | Stage 14 Water Reticulation Asbuilt Plan |
| 21879-M-14-SW1 Rev AB | Stage 14 Stormwater Asbuilt Plan |
| 21879-M-14-RD1-Rev AB | Stage 14 Roading Asbuilt Plan |
| | |
| | |

Barry Pearson

Chartered Professional Engineer/Surveyor

19/5/2021

Date

APPENDIX 9

As Built Drawings

- 21879-M-WW1 Rev AB Stage 14 Wastewaer Asbuilt Plan
- 21879-M-14-W1 Rev AB Stage 14 Water Reticulation Asbuilt Plan
- 21879-M-14-SW1 Rev AB Stage 14 Stormwater Asbuilt Plan
- 21879-M-14-Rev AB Stage 14 Roading Asbuilt Plan





idata)0000 - H Driveinparkinson/Autocad/21879-M-14 - CADM - Stage 14 As-built Plans - Autocad/21879-M-14 - CADM - Stage 14 As-built Plans.dwg - Plotted: 21/0

| | 1 | \sim |
|----------|----|--|
| Λ | | (sXL) |
| Δ | | SHRIMPTON & LIPINSKI |
| NN | A | LAND DEVELOPMENT & DESIGN SPECIALISTS |
| | | Ph. 07 577 6069 Email: info@sltga.co.nz |
| | | P.O. Box 231, Tauranga 3140 www.sltga.co.nz |
| | | NOTES: |
| | | 1. HCC REF: 011.2018.00006632.001 |
| | в | 2. LOT CONNECTIONS AND LATERAL LINES PLOTTED FROM DATA |
| | | 3. LOT CONNECTIONS ARE Ø100 uPVC |
| | | SN16 RR UNLESS SHOWN OTHERWISE |
| | | LEGEND: |
| | | ABUTTAL — — — — |
| | | |
| | С | |
| | | WASTEWATER CONNECTION |
| | | WASTEWATER - EXISTING |
| | | |
| | | WASTEWATER CONNECTION |
| | | |
| | | |
| | D | |
| | | |
| | | |
| | | |
| | E | |
| | | |
| | | Rev DESCRIPTION DRN CKD APP DATE 0 PRELIMINARY NP SRC BP 05/21 |
| | | AB AS-BUILT NP SRC BP 05/21 |
| | | |
| | F. | |
| | | SURVEYED CK 06/05/21 DESIGNED BECA 08/18 COORDINATE SYSTEM: MT EDEN 2000 CIRCUIT |
| | | ORIGIN OF COORDINATES: ALP 4 DP 534481 HEIGHT DATUM: MOTURIKI DATUM 1953 |
| | | FURIGIN UF HEIGHT: SS 507 SO 42451 RL = 44.04m TITLE |
| | | STAGE 14 |
| | G | WASTEWATER |
| | | AS-BUILT PLAN |
| | | |
| | | PREPARED FOR |
| | | (A) |
| | | CHECHNEL |
| | н | |
| | | DRAWING NO |
| | | 21879-M-14-WW1 AB |
| | , | COPYRIGHT ON THIS DRAWING IS RESERVED |



| VALVE COORDINATES | | |
|-------------------|-----------|--|
| EASTING | NORTHING | |
| 447206.68 | 702887.14 | |
| 447230.44 | 702829.88 | |
| 447275.96 | 702917.96 | |
| 447303.93 | 702850.83 | |
| 447317.13 | 702820.52 | |
| 447310.18 | 702806.30 | |

| VALVE COORDINATES | | | | |
|-------------------|-----------|--|--|--|
| EASTING | NORTHING | | | |
| 447218.83 | 702884.32 | | | |
| 447242.03 | 702829.76 | | | |
| 447242.58 | 702828.46 | | | |
| 447293.46 | 702842.82 | | | |
| 447265.37 | 702909.88 | | | |
| | | | | |

| DRANT COORDINATES | | | |
|-------------------|-----------|--|--|
| EASTING | NORTHING | | |
| 447207.67 | 702884.13 | | |
| 447236.21 | 702805.60 | | |
| 447276.53 | 702916.41 | | |
| 447310.86 | 702804.57 | | |



COPYRIGHT ON THIS DRAWING IS RESERVED



| ° | A | SHRIMPTON & LIPINSKI AND DEVELOPMENT & DESIGN SPECIALISTS Ph. 07 577 6069 Email: info@stlga.co.nz p.O. Box 231, Tauranga 3140 www.sitga.co.nz |
|---|---|---|
| | В | NOTES: 1. HCC REF: 011.2018.00006632.001 2. DCP'S CONNECTED TO MANHOLES BY Ø300 uPVC SN16 UNLESS OTHERWISE STATED 3. CP'S CONNECTED TO MANHOLES BY Ø225 DIA uPVC SN16 UNLESS OTHERWISE STATED 4. LOT CONNECTIONS ARE Ø100 FOR SINGLE AND Ø150 FOR DOUBLE UNLESS OTHERWISE STATED |
| | С | 5. LOT CONNECTIONS AND LATERALS LINE PLOTTED FROM DATA SUPPLIED BY WEST CONSTRUCTION & ONLINE CONTRACTORS |
| - | D | ABUTTAL |
| | F | NAME DATE NAME DATE 0 PRELIMINARY NP SRC BP 05/21 AB AS-BUILT NP SRC BP 05/21 SURVEYED CK 06/05/21 DESIGNED BECA 08/18 COORDINATE SYSTEM: MTEDEN 2000 CIRCUIT 08/18 0000 01000 ORIGIN OF COORDINATES:ALP 4 DP 534481 HEIGHT DATUM: MOTURIKI DATUM 1953 021000 010000 010000 |
| | G | TITLE STAGE 14 STORMWATER AS-BUILT PLAN |
| 8 | Н | ORIGINAL SCALES @ A3 STATUS 1:750 DRAWING NO 21879-M-14-SW1 AB |





APPENDIX 10

Asset Spreadsheets – Hard copy

- Water asset sheets
- Wastewater asset sheets
- Stormwater asset sheets



| As Built Datashee WATER HYDRA | t (to accompan NTS | y As Built I | Plans) | | | | | | | | | | Waikato Regional ITS Form Version 1 - July 2017 |
|---|-----------------------|--------------|-------------------------------------|---|-------------|-----------------------|-------------------------------------|-----------------------|------------------------|-------------------|--------------|-------------|--|
| Developer/Contractor: Development/Subdivis Stage: | ion/Job: | | | Chedworth Properties Ltd / Online Greenhill Park Stage 14 | Contractors | Prepared by: Date: | S & L May-21 | | - | | | | |
| Plan ID | Hydrant ID | Pipe ID | Property ID (Lot No. or Address) | Street Name | Street Type | Hydrant Size (mm) | Physical Location (where necessary) | Easting Coordinate | Northing Coordinate | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-W1 | FH1 | RM2 | LOT 380 | OGILVIE | AVENUE | 150 | BERM | 447207.67 | 702884.13 | N | Feb-21 | \$2,557 | |
| 21879-M-14-W1 | FH2 | RM3 | LOT 406 | KIBBLEWHITE | ROAD | 150 | BERM | 447236.21 | 702805.60 | Ν | Feb-21 | \$2,557 | |
| 21879-M-14-W1 | FH3 | RM8 | LOT 396 | GUILLAUME | STREET | 150 | BERM | 447276.53 | 702916.41 | Ν | Feb-21 | \$2,557 | |
| 21879-M-14-W1 | FH4 | RM4 | LOT 363 DP 558430 | GUILLAUME | STREET | 150 | BERM | 447310.86 | 702804.57 | Ν | Feb-21 | \$2,557 | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

| As Built Datasheet (to a | ccompany As | Built Plans) | | | | | | | | Waikato Regional ITS |
|-----------------------------|-------------|-----------------------|-----------------------|---------------------|-------------------|--------------|----------------|--------------|-------------|----------------------------|
| WATER PIPELINES | | | | | | | | | | Form Version 1 - July 2017 |
| Developer/Contractor: | | Chedworth Prope | erties Ltd / Online (| Contractors | | Prepared by: | S & L | | | |
| Development/Subdivision/Job | | Greenhill Park | | _ | | Date: | May-21 | | - | |
| Stage: | | Stage 14 | | - | | | | | - | |
| | | | | _ | | | | | | |
| Plan ID | Pipe ID | Pipe Diameter (mm) | Pipe Length (m) | Laying Depth (m) | Pipe Material | Joint Type | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-W1 | RM1 | 150 | 15.1 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$393 | |
| 21879-M-14-W1 | RM2 | 150 | 62.0 | 1.2 | PVC-M PN12 | RRJ | Ν | Feb-21 | \$1,612 | |
| 21879-M-14-W1 | RM3 | 150 | 125.5 | 1.2 | PVC-M PN12 | RRJ | Ν | Feb-21 | \$3,263 | |
| 21879-M-14-W1 | RM4 | 150 | 40.9 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$1,063 | |
| 21879-M-14-W1 | RM5 | 150 | 52.9 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$1,375 | |
| 21879-M-14-W1 | RM6 | 150 | 35.3 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$918 | |
| 21879-M-14-W1 | RM7 | 150 | 29.9 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$777 | |
| 21879-M-14-W1 | RM8 | 150 | 72.7 | 1.2 | PVC-M PN12 | RRJ | N | Feb-21 | \$1,890 | |
| 21879-M-14-W1 | RM9 | 150 | 8.8 | 1.2 | PVC-M PN12 | RRJ | Ν | Feb-21 | \$229 | |
| | | | | | | | | | | |
| 21879-M-14-W1 | RM10 | 63 | 21.6 | 1.2 | PE80 SDR11 PN12.5 | RRJ | Ν | Feb-21 | \$335 | |
| 21879-M-14-W1 | RM11 | 63 | 59.1 | 1.2 | PE80 SDR11 PN12.5 | RRJ | Ν | Feb-21 | \$916 | |
| 21879-M-14-W1 | RM12 | 63 | 12.1 | 1.2 | PE80 SDR11 PN12.5 | RRJ | Ν | Feb-21 | \$188 | |
| 21879-M-14-W1 | RM13 | 63 | 64.0 | 1.2 | PE80 SDR11 PN12.5 | RRJ | N | Feb-21 | \$992 | |
| 21879-M-14-W1 | RM14 | 63 | 85.6 | 1.2 | PE80 SDR11 PN12.6 | RRJ | Ν | Feb-21 | \$1,327 | |
| 21879-M-14-W1 | RM15 | 63 | 12.5 | 1.2 | PE80 SDR11 PN12.7 | RRJ | Ν | Feb-21 | \$194 | |
| 21879-M-14-W1 | RM16 | 63 | 51.3 | 1.2 | PE80 SDR11 PN12.7 | RRJ | N | Feb-21 | \$795 | |

| As Built Datashe | et (to acco | ompany As Built Pla SERVICE I INE | ans) | | | | | | | | | | | | | Waikato Regional ITS Form Version 1 - July 2017 |
|---|-------------|--------------------------------------|---|----------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|-----------------------|------------------------|---|-----------------------------|-------------------|--------------|-------------|--|
| Developer/Contractor: Development/Subdivisio Stage: | on/Job: | | Chedworth Properties Ltd / Or Greenhill Park Stage 14 | line Contrac | tors | Prepared by Date: | r: | S & L May-21 | | | | | | | | |
| Plan ID | Pipe ID | Property ID (Lot No. or Address) | Street Name | Street Type | Physical Location (where necessary) | Service Pipe Diam (mm) | Service Pipe Length (m) | Service Pipe Material | Easting Coordinate | Northing Coordinate | Distance from left (LB) or right (RB) boundary (m) | Meter Installed (Y/N) | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-W1 | RM8 | LOT 328 | GUILLAUME | STREET | BERM | 25 | 1.3 | MDPE | 447299.34 | 702862.82 | 1.9 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM16 | LOT 375 | KIBBLEWHITE | ROAD | BERM | 25 | 0.1 | MDPE | 447215.04 | 702813.28 | 3.0 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 376 | OGILVIE | AVENUE | BERM | 25 | 0.5 | MDPE | 447232.49 | 702824.05 | 4.4 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM2 | LOT 377 | OGILVIE | AVENUE | BERM | 25 | 0.4 | MDPE | 447218.80 | 702855.20 | 1.4 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM2 | LOT 378 | OGILVIE | AVENUE | BERM | 25 | 0.5 | MDPE | 447214.24 | 702865.94 | 0.7 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM2 | LOT 379 | OGILVIE | AVENUE | BERM | 25 | 0.6 | MDPE | 447210.59 | 702875.23 | 1.3 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM2 | LOT 380 | OGILVIE | AVENUE | BERM | 25 | 0.6 | MDPE | 447206.86 | 702884.77 | 1.6 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM1 | LOT 381 | OGILVIE | AVENUE | BERM | 25 | 0.5 | MDPE | 447205.81 | 702887.84 | 1.7 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM1 | LOT 382 | OGILVIE | AVENUE | BERM | 25 | 0.7 | MDPE | 447202.41 | 702896.80 | 0.7 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM10 | LOT 383 | OGILVIE | AVENUE | BERM | 25 | 0.7 | MDPE | 447212.27 | 702904.40 | 0.4 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM10 | LOT 384 | OGILVIE | AVENUE | BERM | 25 | 1.0 | MDPE | 447216.55 | 702892.92 | 0.7 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM11 | LOT 385 | OGILVIE | AVENUE | BERM | 25 | 0.5 | MDPE | 447222.42 | 702877.63 | 0.7 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM11 | LOT 386 | OGILVIE | AVENUE | BERM | 25 | 0.7 | MDPE | 447226.98 | 702866.88 | 0.4 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM11 | LOT 387 | OGILVIE | AVENUE | BERM | 25 | 0.6 | MDPE | 447231.75 | 702855.23 | 0.8 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM13 | LOT 388 | OGILVIE | AVENUE | BERM | 25 | 0.7 | MDPE | 447244.07 | 702826.71 | 6.0 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM13 | LOT 389 | KIBBLEWHITE | ROAD | BERM | 25 | 0.7 | MDPE | 447262.80 | 702825.78 | -0.4 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM14 | LOT 390 | GUILLAUME | STREET | BERM | 25 | 0.6 | MDPE | 447291.65 | 702845.12 | 8.6 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM14 | LOT 391 | GUILLAUME | STREET | BERM | 25 | 0.9 | MDPE | 447280.27 | 702871.13 | 1.7 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM14 | LOT 392 | GUILLAUME | STREET | BERM | 25 | 0.8 | MDPE | 447275.62 | 702882.58 | 1.4 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM14 | LOT 393 | GUILLAUME | STREET | BERM | 25 | 0.9 | MDPE | 447270.83 | 702894.40 | 0.7 RB | N | Ν | May-21 | \$705 | |

| As Built Datashe | et (to acco | mpany As Built Pl | ans) | | | | | | | | | | | | | Waikato Regional ITS |
|-------------------------|-------------|-------------------------------------|-------------------------------|----------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|-----------------------|------------------------|---|-----------------------------|-------------------|--------------|-------------|----------------------------|
| WATER CONN | ECTION/S | SERVICE LINE | | | | | | | | | | | | | | Form Version 1 - July 2017 |
| Developer/Contractor: | | | Chedworth Properties Ltd / On | line Contract | tors | Prepared by | : | S & L | | | | | | | | |
| Development/Subdivision | on/Job: | | Greenhill Park | _ | | Date: | | May-21 | | | | | | | | |
| Stage: | | | Stage 14 | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Plan ID | Pipe ID | Property ID (Lot No. or Address) | Street Name | Street Type | Physical Location (where necessary) | Service Pipe Diam (mm) | Service Pipe Length (m) | Service Pipe Material | Easting Coordinate | Northing Coordinate | Distance from left (LB) or right (RB) boundary (m) | Meter Installed (Y/N) | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-W1 | RM14 | LOT 394 | GUILLAUME | STREET | BERM | 25 | 0.8 | MDPE | 447265.88 | 702907.47 | 2.6 RB | N | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM15 | LOT 395 | GUILLAUME | STREET | BERM | 25 | 0.6 | MDPE | 447261.14 | 702919.92 | 1.4 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM9 | LOT 396 | GUILLAUME | STREET | BERM | 25 | 0.8 | MDPE | 447273.66 | 702925.91 | 0.6 LB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM8 | LOT 397 | GUILLAUME | STREET | BERM | 25 | 1.7 | MDPE | 447279.63 | 702910.11 | 3.9 LB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM8 | LOT 398 | GUILLAUME | STREET | BERM | 25 | 0.6 | MDPE | 447283.66 | 702900.47 | 0.9 LB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM8 | LOT 399 | GUILLAUME | STREET | BERM | 25 | 1.8 | MDPE | 447290.31 | 702884.26 | 2.6 LB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM8 | LOT 400 | GUILLAUME | STREET | BERM | 25 | 0.7 | MDPE | 447294.38 | 702874.60 | 1.1 LB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM6 | LOT 401 | GOSSET | AVENUE | BERM | 25 | 0.8 | MDPE | 447318.61 | 702830.97 | 4.1RB | Ν | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 402 | KIBBLEWHITE | ROAD | BERM | 25 | 1.1 | MDPE | 447278.00 | 702817.90 | 2.3 RB | Ν | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 403 | KIBBLEWHITE | ROAD | BERM | 25 | 0.9 | MDPE | 447264.51 | 702813.58 | 1.7 RB | Ν | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 404 | KIBBLEWHITE | ROAD | BERM | 25 | 0.7 | MDPE | 447251.17 | 702809.44 | 1.4 RB | Ν | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 405 | KIBBLEWHITE | ROAD | BERM | 25 | 0.7 | MDPE | 447238.15 | 702805.43 | 1.4 RB | Ν | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM3 | LOT 406 | KIBBLEWHITE | ROAD | BERM | 25 | 0.8 | MDPE | 447236.12 | 702804.84 | 0.7 LB | Ν | N | May-21 | \$705 | |
| | | | | | | | | | | | | | | | | |
| 21879-M-14-W1 | RM7 | LOT 407 LT 560839 | GOSSET | AVENUE | BERM | 25 | 1.4 | MDPE | 447328.49 | 702849.50 | 2.3 LB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM 4 | LOT 362 DP 558430 | GUILLAUME | STREET | BERM | 25 | 1.1 | MDPE | 447312.71 | 702795.98 | 1.2 RB | Ν | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM 3 | LOT 363 DP 558430 | GUILLAUME | STREET | BERM | 25 | 0.9 | MDPE | 447309.07 | 702806.48 | 2.1 RB | N | N | May-21 | \$705 | |
| 21879-M-14-W1 | RM 5 | LOT 364 DP 558430 | GUILLAUME | STREET | BERM | 25 | 1.1 | MDPE | 447322.31 | 702812.16 | 1.3 LB | N | Ν | May-21 | \$705 | |
| 21879-M-14-W1 | RM 5 | LOT 365 DP 558430 | GUILLAUME | STREET | BERM | 25 | 1.0 | MDPE | 447327.75 | 702801.33 | 1.4 LB | N | N | May-21 | \$705 | |

| As Built Datasheet (te | o accompai | ny As Built | Plans) | | | | | | | | | | Waikato Regional ITS |
|--------------------------|------------|-------------|-------------------------------------|----------------------------------|---------------|--------------------|--------------------|-----------------------|------------------------|-------------------|--------------|-------------|---------------------------|
| WATER VALVES | | | | | | | | | | | | | Form Version 1 - July 201 |
| Developer/Contractor: | | | | Chedworth Properties Ltd / Onlin | e Contractors | ; | Prepared by: | S | & L | | | | |
| Development/Subdivision/ | Job: | | | Greenhill Park | | - | Date: | Ma | y-21 | - | | | |
| Stage: | | | | Stage 14 | - | | | | | - | | | |
| | | | | | - | | | | | | | | |
| | | | | | | | | | | | | | |
| Plan ID | Valve ID | Pipe ID | Property ID (Lot No. or Address) | Street Name | Street Type | Valve Size (mm) | Valve Manufacturer | Easting Coordinate | Northing Coordinate | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-W1 | SV1 | RM1 | LOT 381 | OGILVIE | AVENUE | 150 | HAWLE | 447206.68 | 702887.14 | N | Feb-21 | \$2,200 | |
| 21879-M-14-W1 | SV2 | RM2 | LOT 376 | OGILVIE | AVENUE | 150 | HAWLE | 447230.44 | 702829.88 | N | Feb-21 | \$2,200 | |
| 21879-M-14-W1 | SV3 | RM9 | LOT 396 | GUILLAUME | STREET | 150 | HAWLE | 447275.96 | 702917.96 | N | Feb-21 | \$2,200 | |
| 21879-M-14-W1 | SV4 | RM8 | LOT 328 | GUILLAUME | STREET | 150 | HAWLE | 447303.93 | 702850.83 | N | Feb-21 | \$2,200 | |
| 21879-M-14-W1 | SV5 | RM6 | LOT 401 | GUILLAUME | STREET | 150 | HAWLE | 447317.13 | 702820.52 | Ν | Feb-21 | \$2,200 | |
| 21879-M-14-W1 | SV6 | RM4 | LOT 363 DP 558430 | GUILLAUME | STREET | 150 | HAWLE | 447310.18 | 702806.30 | N | Feb-21 | \$2,200 | |
| | | | | | | | | | | | | | |
| 21879-M-14-W1 | PV1 | RM10 | LOT 384 | OGILVIE | AVENUE | 63 | HAWLE | 447218.83 | 702884.32 | Ν | Feb-21 | \$930 | |
| 21879-M-14-W1 | PV2 | RM11 | LOT 388 | OGILVIE | AVENUE | 63 | HAWLE | 447242.03 | 702829.76 | Ν | Feb-21 | \$930 | |
| 21879-M-14-W1 | PV3 | RM13 | LOT 388 | OGILVIE | AVENUE | 63 | HAWLE | 447242.58 | 702828.46 | Ν | Feb-21 | \$930 | |
| 21879-M-14-W1 | PV4 | RM14 | LOT 390 | GUILLAUME | STREET | 63 | HAWLE | 447293.46 | 702842.82 | Ν | Feb-21 | \$930 | |
| 21879-M-14-W1 | PV5 | RM15 | LOT 394 | GUILLAUME | STREET | 63 | HAWLE | 447265.37 | 702909.88 | Ν | Feb-21 | \$930 | |
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| As Built Datashe WASTEWATE | et (to accom R MANHOLI | oany As Built Plar ES | ns) | | | | | | | | | | Waikato Regional ITS Form Version 1 - July 2017 |
|---|---------------------------|-------------------------------------|--|---------------|------------------|-----------------------|--------------------------|--------------------|------------------------|-------------------|--------------|-------------|--|
| Developer/Contracto Development/Subdiv | r: ision/Job: | | Chedworth Properties Ltd / Onlir Greenhill Park | e Contractors | | Prepared by: Date: | S & L May-21 | | | | | | |
| Stage: | | | Stage 14 | _ | (North Rim) | | | (Centre) | (Centre) | | | | |
| Plan ID | Manhole ID | Property ID (Lot No. or Address) | Street Name | Street Type | Lid Level (m) | Invert Level (m) | MH Width/Diam (mm) | Easting Coordinate | Northing Coordinate | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-WW1 | WWMH 18.1 | LOT 397 | GUILLAUME | STREET | 39.01 | 37.15 | 1050 | 447270.81 | 702911.14 | N | Nov-20 | \$2,448 | |
| 21879-M-14-WW1 | WWMH 19.1 | LOT 383 | OGILVIE | AVENUE | 39.04 | 37.40 | 1050 | 447208.47 | 702897.45 | N | Nov-20 | \$2,448 | |
| 21879-M-14-WW1 | WWMH 19.2 | LOT 405 | KIBBLEWHITE | ROAD | 39.35 | 36.40 | 1050 | 447243.41 | 702810.94 | N | Nov-20 | \$4,081 | |
| 21879-M-14-WW1 | WWMH 19A.1 | LOT 406 | KIBBLEWHITE | ROAD | 38.96 | 36.71 | 1050 | 447227.76 | 702806.07 | Ν | Nov-20 | \$2,448 | |
| 21879-M-14-WW1 | WWMH 18.2 | LOT 402 | GUILLAUME | STREET | 38.91 | 35.43 | 1050 | 447305.55 | 702830.11 | E | Nov-20 | N/A | EXISTING MH FROM STAGE 13 (S&L Ref WWMH 18.2) |
| | | | | | | | | | | | | | |

| As Built Datasheet (to | accompany A | s Built Plans) | | | | | | | | | | | | Waikato | Regional ITS |
|--------------------------|-----------------------|------------------------|--------------------------|---------------|-------------------------------------|-----------------------|-----------------------|---------------|------------|------------------------------|----------------------------------|-------------------|--------------|-------------|----------------------|
| WASTEWATER PIP | ELINES | | | | | | | | | | | | | Form V | ersion 1 - July 2017 |
| Developer/Contractor: | | | Chedworth Properties Ltd | / Online Cont | ractors | Prepared by: | S & L | | _ | | | | | | |
| Development/Subdivision/ | lob: | | Greenhill Park | _ | | Date: | May-21 | | _ | | | | | | |
| Stage: | | | Stage 14 | _ | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Plan ID | Upstr MH/ Asset ID | Dwnstr MH/ Asset ID | Street Name | Street Type | Physical Location (where necessary) | Pipe Diameter (mm) | Pipe Length (m) | Pipe Material | Joint Type | Invert Level Upstr (m) | Invert Level Dwnstr (m) | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | GUILLAUME | STREET | ROADWAY | 150 | 88.2 | uPVC SN16 | RR | 37.15 | 35.52 | Ν | Nov-20 | \$21,344 | |
| 21879-M-14-WW1 | WWMH 19.2 | WWMH 18.2 | KIBBLEWHITE | ROAD | ROADWAY | 150 | 65.0 | uPVC SN16 | RR | 36.40 | 35.52 | N | Nov-20 | \$15,730 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | OGILVIE | AVENUE | ROADWAY | 150 | 93.3 | uPVC SN16 | RR | 37.40 | 36.45 | N | Nov-20 | \$17,447 | |
| 21879-M-14-WW1 | WWMH 19A.1 | WWMH 19.2 | KIBBLEWHITE | ROAD | ROADWAY | 150 | 16.4 | uPVC SN16 | RR | 36.71 | 36.49 | Ν | Nov-20 | \$3,067 | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Waikato Regional ITS Form Version 1 - July 2017

As Built Datasheet (to accompany As Built Plans) WASTEWATER CONNECTION/SERVICE LINE

| Developer/Contractor: | Chedworth Properties Ltd / Online Contractors | Prepared by: | S&L |
|------------------------------|---|--------------|--------|
| Development/Subdivision/Job: | Greenhill Park | Date: | May-21 |
| Stage: | Stage 14 | | |

| Plan ID | Upstr MH/ Asset ID | Dwnstr MH/ Asset ID | Property ID (Lot No. or Address) | Street Name | Street Type | Physical Location (where necessary) | Service Pipe Diam (mm) | Service Pipe Length (m) | Service Pipe Material | Invert Level At Private End (m) OR Depth (m) | Easting Coordinate | Northing Coordinate | Distance from left (LB) or right (RB) boundary (m) | Distance from front (FB) or back (BB) boundary (m) | Service Status | Install Date | Asset Value | Comments |
|----------------|-----------------------|------------------------|-------------------------------------|-------------|-------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|---|-----------------------|------------------------|---|---|-------------------|--------------|-------------|----------|
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 328 | GUILLAUME | STREET | BERM | 100 | 8.7 | uPVC SN16 | 1.2 | 447300.54 | 702863.92 | 1.4 LB | 1.0 FB | N | Nov-20 | \$459 | |
| 21879-M-14-WW1 | - | WWMH 19A.1 | LOT 375 | KIBBLEWHITE | ROAD | BERM | 100 | 15.0 | uPVC SN16 | 1.2 | 447215.60 | 702814.98 | 2.0 RB | 0.9 FB | Ν | Nov-20 | \$792 | |
| 21879-M-14-WW1 | - | WWMH 19A.1 | LOT 376 | KIBBLEWHITE | ROAD | BERM | 100 | 5.0 | uPVC SN16 | 1.2 | 447218.64 | 702816.72 | 1.5 LB | 1.6 FB | Ν | Nov-20 | \$264 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 377 | OGILVIE | AVENUE | BERM | 100 | 4.0 | uPVC SN16 | 1.2 | 447217.12 | 702854.20 | 1.7 RB | 1.4 FB | Ν | Nov-20 | \$211 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 378 | OGILVIE | AVENUE | BERM | 100 | 8.1 | uPVC SN16 | 1.2 | 447216.38 | 702857.19 | 1.3 LB | 0.9 FB | Ν | Nov-20 | \$428 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 379 | OGILVIE | AVENUE | BERM | 100 | 4.1 | uPVC SN16 | 1.2 | 447208.25 | 702874.30 | 1.5 RB | 2.1 FB | Ν | Nov-20 | \$216 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 380 | OGILVIE | AVENUE | BERM | 100 | 9.0 | uPVC SN16 | 1.2 | 447207.83 | 702876.90 | 1.1 LB | 1.5 FB | Ν | Nov-20 | \$475 | |
| 21879-M-14-WW1 | - | WWMH 19.1 | LOT 381 | OGILVIE | AVENUE | BERM | 100 | 7.4 | uPVC SN16 | 1.2 | 447201.56 | 702894.80 | 1.0 RB | 1.0 FB | Ν | Nov-20 | \$391 | |
| 21879-M-14-WW1 | - | WWMH 19.1 | LOT 382 | OGILVIE | AVENUE | BERM | 100 | 4.6 | uPVC SN16 | 1.2 | 447200.29 | 702898.06 | 2.5 LB | 1.0 FB | Ν | Nov-20 | \$243 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 383 | OGILVIE | AVENUE | BERM | 100 | 5.1 | uPVC SN16 | 1.2 | 447216.64 | 702896.33 | 2.5 RB | 0.7 FB | Ν | Nov-20 | \$269 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 384 | OGILVIE | AVENUE | BERM | 100 | 7.7 | uPVC SN16 | 1.2 | 447218.65 | 702892.99 | 1.3 LB | 1.4 FB | Ν | Nov-20 | \$407 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 385 | OGILVIE | AVENUE | BERM | 100 | 4.0 | uPVC SN16 | 1.2 | 447227.20 | 702869.54 | 2.0 RB | 08 FB | Ν | Nov-20 | \$211 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 386 | OGILVIE | AVENUE | BERM | 100 | 7.5 | uPVC SN16 | 1.2 | 447228.75 | 702867.16 | 0.8 LB | 1.3 FB | Ν | Nov-20 | \$396 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 387 | OGILVIE | AVENUE | BERM | 100 | 4.1 | uPVC SN16 | 1.2 | 447237.48 | 702846.28 | 1.7 RB | 1.3 FB | Ν | Nov-20 | \$216 | |
| 21879-M-14-WW1 | WWMH 19.1 | WWMH 19.2 | LOT 388 | OGILVIE | AVENUE | BERM | 100 | 8.0 | uPVC SN16 | 1.2 | 447238.64 | 702843.99 | 0.9 LB | 1.5 FB | Ν | Nov-20 | \$422 | |
| 21879-M-14-WW1 | WWMH 19.2 | WWMH 18.2 | LOT 389 | KIBBLEWHITE | ROAD | BERM | 100 | 5.2 | uPVC SN16 | 1.2 | 447274.88 | 702831.22 | 1.1 RB | 1.0 FB | Ν | Nov-20 | \$275 | |
| 21879-M-14-WW1 | WWMH 19.2 | WWMH 18.2 | LOT 390 | KIBBLEWHITE | ROAD | BERM | 100 | 10.9 | uPVC SN16 | 1.2 | 447277.57 | 702832.86 | 1.9 LB | 1.7 FB | Ν | Nov-20 | \$576 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 391 | GUILLAUME | STREET | BERM | 100 | 8.5 | uPVC SN16 | 1.2 | 447282.85 | 702861.48 | 2.2 LB | 1.1 FB | Ν | Nov-20 | \$449 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 392 | GUILLAUME | STREET | BERM | 100 | 8.3 | uPVC SN16 | 1.2 | 447274.08 | 702882.49 | 0.9 RB | 0.9 FB | Ν | Nov-20 | \$438 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 393 | GUILLAUME | STREET | BERM | 100 | 5.1 | uPVC SN16 | 1.2 | 447273.01 | 702884.91 | 1.8 LB | 1.0 FB | Ν | Nov-20 | \$269 | |
| 21879-M-14-WW1 | - | WWMH 18.1 | LOT 394 | GUILLAUME | STREET | BERM | 100 | 4.1 | uPVC SN16 | 1.2 | 447264.15 | 702907.14 | 2.3 RB | 1.1 FB | Ν | Nov-20 | \$216 | |
| 21879-M-14-WW1 | - | WWMH 18.1 | LOT 395 | GUILLAUME | STREET | BERM | 100 | 8.4 | uPVC SN16 | 1.2 | 447262.46 | 702910.16 | 1.1 LB | 1.6 FB | Ν | Nov-20 | \$444 | |
| 21879-M-14-WW1 | - | WWMH 18.1 | LOT 396 | GUILLAUME | STREET | BERM | 100 | 9.8 | uPVC SN16 | 1.2 | 447278.98 | 702916.70 | 2.4 RB | 1.0 FB | Ν | Nov-20 | \$517 | |
| 21879-M-14-WW1 | - | WWMH 18.1 | LOT 397 | GUILLAUME | STREET | BERM | 100 | 6.1 | uPVC SN16 | 1.2 | 447280.51 | 702913.62 | 1.0 LB | 1.4 FB | Ν | Nov-20 | \$322 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 398 | GUILLAUME | STREET | BERM | 100 | 5.1 | uPVC SN16 | 1.2 | 447289.93 | 702888.13 | 1.1 RB | 0.8 FB | Ν | Nov-20 | \$269 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 399 | GUILLAUME | STREET | BERM | 100 | 8.9 | uPVC SN16 | 1.2 | 447291.44 | 702885.77 | 1.7 LB | 1.2 FB | Ν | Nov-20 | \$470 | |
| 21879-M-14-WW1 | WWMH 18.1 | WWMH 18.2 | LOT 400 | GUILLAUME | STREET | BERM | 100 | 4.6 | uPVC SN16 | 1.2 | 447299.43 | 702866.35 | 1.3 RB | 1.0 FB | Ν | Nov-20 | \$243 | |
| 21879-M-14-WW1 | WWMH 18.2 | WWMH 18.3 | LOT 401 | GUILLAUME | STREET | BERM | 100 | 9.6 | uPVC SN16 | 1.2 | 447323.03 | 702815.00 | 1.1 RB | 1.5 FB | Ν | Nov-20 | \$507 | |
| 21879-M-14-WW1 | WWMH 18.2 | WWMH 18.3 | LOT 402 | GUILLAUME | STREET | BERM | 100 | 8.4 | uPVC SN16 | 1.2 | 447306.14 | 702808.60 | 0.8 LB | 1.4 FB | Ν | Nov-20 | \$444 | |
| 21879-M-14-WW1 | WWMH 19.2 | WWMH 18.2 | LOT 403 | KIBBLEWHITE | ROAD | BERM | 100 | 5.7 | uPVC SN16 | 1.2 | 447264.88 | 702811.62 | 1.4 RB | 1.7 FB | Ν | Nov-20 | \$301 | |
| 21879-M-14-WW1 | WWMH 19.2 | WWMH 18.2 | LOT 404 | KIBBLEWHITE | ROAD | BERM | 100 | 5.4 | uPVC SN16 | 1.2 | 447261.13 | 702810.93 | 2.4 LB | 1.2 FB | Ν | Nov-20 | \$285 | |
| 21879-M-14-WW1 | WWMH 19A.1 | WWMH 19.2 | LOT 405 | KIBBLEWHITE | ROAD | BERM | 100 | 4.0 | uPVC SN16 | 1.2 | 447238.96 | 702803.79 | 1.6 RB | 1.3 FB | Ν | Nov-20 | \$211 | |
| 21879-M-14-WW1 | WWMH 19A.1 | WWMH 19.2 | LOT 406 | KIBBLEWHITE | ROAD | BERM | 100 | 5.3 | uPVC SN16 | 1.2 | 447236.37 | 702803.23 | 1.0 LB | 1.1 FB | N | Nov-20 | \$280 | |

| As Built Datashe | et (to accompa | ny As Built Plans) | | | | | | | | | | | Waikato Regional ITS |
|----------------------|----------------|-------------------------------------|--------------------------------------|-------------|------------------|---------------------|--------------------------|--------------------|------------------------|----------------|--------------|-------------|---|
| STORMWATER | R MANHOLES | 6 | | | | | | | | | | | Form Version 1 - July 2017 |
| Developer/Contractor | r: | | Chedworth Properties Ltd / Online Co | ntractors | Prepared by | : | S & L | | | | | | |
| Development/Subdivi | ision/Job: | | Greenhill Park | - | Date: | | May-21 | | | | | | |
| Stage: | | | Stage 14 | - | | | | | | | | | |
| | | | | | (North Rim) | | | (Centre) | (Centre) | | | | |
| Plan ID | Manhole ID | Property ID (Lot No. or Address) | Street Name | Street Type | Lid Level (m) | Invert Level (m) | MH Width/Diam (mm) | Easting Coordinate | Northing Coordinate | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-SW1 | SWMH 15.1 | LOT 377 | OGILVIE | AVENUE | 39.18 | 37.86 | 1050 | 447223.17 | 702855.53 | N | Dec-20 | \$4,301 | |
| 21879-M-14-SW1 | SWM24118 | LOT 382 | OGILVIE | AVENUE | 38.92 | 37.57 | 1050 | 447203.29 | 702905.99 | E | Jan-20 | N/A | EXISTING MH FROM STAGE 11 (S&L Ref SWMH 15.2) |
| 21879-M-14-SW1 | SWM24122 | LOT 399 | GUILLAUME | STREET | 39.26 | 37.79 | 1050 | 447285.34 | 702880.01 | E | Jan-20 | N/A | EXISTING MH FROM STAGE 11 (S&L Ref SWMH 16.1) |
| 21879-M-14-SW1 | SWM24123 | LOT 318 DP 543413 | GUILLAUME | STREET | 38.81 | 37.00 | 1050 | 447263.96 | 702935.57 | E | Jan-20 | N/A | EXISTING MH FROM STAGE 11 (S&L Ref SWMH 16.2) |
| 21879-M-14-SW1 | SWMH 19.1 | LOT 328 | GUILLAUME | STREET | 39.16 | 37.26 | 1200 | 447305.16 | 702835.08 | E | Dec-20 | N/A | EXISTING MH FROM STAGE 13 (S&L Ref SWMH 19.1) |
| 21879-M-14-SW1 | SWMH 20.1 | LOT 406 | KIBBLEWHITE | ROAD | 39.07 | 37.71 | 1050 | 447229.72 | 702809.01 | N | Dec-20 | \$4,301 | |
| | | | | | | | | | | | | | |
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| As Built Datasheet (to | accompany A | As Built Plans | 6) | | | | | | | | | | | | Waikato Regional ITS |
|--|-----------------------|-----------------------|---|-------------|-------------------------------------|--------------------------|-----------------------|---------------|------------|------------------------------|----------------------------------|-------------------|--------------|-------------|-----------------------------|
| STORMWATER PIP | ELINES | | | | | | | | | | | | | | Form Version 1 - July 2017 |
| Developer/Contractor: Development/Subdivision/J Stage: | ob: | | Chedworth Properties Ltd / Online Greenhill Park Stage 14 | Contractors | Prepared by: Date: | S & L May-21 | | - | | | | | | | |
| Plan ID | Upstr MH/ Asset ID | Dwnstr MH/ Asse ID | t Street Name | Street Type | Physical Location (where necessary) | Pipe Diameter (mm) | Pipe Length (m) | Pipe Material | Joint Type | Invert Level Upstr (m) | Invert Level Dwnstr (m) | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-SW1 | SWMH 15.1 | SWM24118 | OGILVIE | AVENUE | ROADWAY | 300 | 54.2 | uPVC | SN16 | 37.86 | 37.61 | Ν | Dec-20 | \$9,756 | |
| 21879-M-14-SW1 | SWM24122 | SWM24123 | GUILLAUME | STREET | ROADWAY | 300 | 59.5 | uPVC | SN16 | 37.79 | 37.34 | E | Jan-20 | N/A | EXISTING LINE FROM STAGE 11 |
| 21879-M-14-SW1 | SWMH 19.1 | SWMH 19.4 | GUILLAUME | STREET | ROADWAY | 600 | 81.0 | RC | RR | 37.26 | 36.63 | E | Dec-20 | N/A | EXISTING LINE FROM STAGE 13 |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | KIBBLEWHITE | ROAD | ROADWAY | 300 | 79.8 | uPVC | SN16 | 37.71 | 37.28 | Ν | Dec-20 | \$14,364 | |
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Waikato Regional ITS

As Built Datasheet (to accompany As Built Plans)

| STORMWATER C | ONNECTIO | VICE I | INE |
|--------------|----------|-------------|-----|
| SIURIWAIER C | UNNECTIO | W SERVICE L | |

| STORMWATER CONNECTION/SERVICE LINE | | | | | | | | | | | | | | | | | | |
|------------------------------------|--------------------|------------------------|-------------------------------------|-----------------------------|-------------|--|------------------------------|----------------------------------|--------------------------|--|-----------------------|------------------------|---|---|-------------------|--------------|-------------|---------------------------------------|
| Developer/Contractor | : | | Chedworth Propertie | es Ltd / Online Contractors | | Prepared by: | S&L | | | | | | | | | | | |
| Development/Subdivi | sion/Job: | | Greenhill Park | | - | Date: | May-21 | | | - | | | | | | | | |
| Stage: | | | Stage 14 | | _ | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Plan ID | Upstr MH/ Asset ID | Dwnstr MH/ Asset ID | Property ID (Lot No. or Address) | Street Name | Street Type | Physical Location (where necessary) | Service Pipe Diam (mm) | Service Pipe Length (m) | Service Pipe Material | Invert Level At Private End (m) OR Depth (m) | Easting Coordinate | Northing Coordinate | Distance from left (LB) or right (RB) boundary (m) | Distance from front (FB) or back (BB) boundary (m) | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-SW1 | SWMH 21.2 | SWMH 19.1 | LOT 328 | GOSSET | ROAD | BERM | 100/150 | 6.1 | uPVC SN16 | 1.2 | 447324.84 | 702850.00 | 0.8 RB | 1.4 FB | Ν | Dec-20 | \$457 | PIPE SIZE: 3.5m = 100mm; 2.6m = 150mm |
| 21879-M-14-SW1 | - | SWMH 20.1 | LOT 375 | KIBBLEWHITE | ROAD | BERM | 100/150 | 15.7 | uPVC SN16 | 1.2 | 447215.02 | 702814.46 | 2.7 RB | 0.5 FB | N | Dec-20 | \$1,289 | PIPE SIZE: 6.8m = 100mm; 8.9m = 150mm |
| 21879-M-14-SW1 | - | SWMH 20.1 | LOT 376 | KIBBLEWHITE | ROAD | BERM | 100 | 5.5 | uPVC SN16 | 1.2 | 447219.52 | 702817.22 | 2.4 LB | 1.8 FB | N | Dec-20 | \$290 | |
| 21879-M-14-SW1 | - | SWMH 15.1 | LOT 377 | OGILVIE | AVENUE | BERM | 100 | 8.5 | uPVC SN16 | 1.2 | 447217.91 | 702848.82 | 7.1 RB | 2.7 FB | N | Dec-20 | \$888 | |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 378 | OGILVIE | AVENUE | BERM | 100 | 3.9 | uPVC SN16 | 1.2 | 447213.14 | 702864.21 | 2.0 RB | 1.3 FB | N | Dec-20 | \$206 | |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 379 | OGILVIE | AVENUE | BERM | 100/150 | 6.7 | uPVC SN16 | 1.2 | 447211.66 | 702866.48 | 0.6 LB | 1.8 FB | N | Dec-20 | \$354 | PIPE SIZE: 3.4m = 100mm; 3.3m = 150mm |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 380 | OGILVIE | AVENUE | BERM | 100 | 4.3 | uPVC SN16 | 1.2 | 447205.26 | 702884.04 | 1.8 RB | 1.3 FB | N | Dec-20 | \$227 | |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 381 | OGILVIE | AVENUE | BERM | 100/150 | 6.3 | uPVC SN16 | 1.2 | 447204.09 | 702886.80 | 1.2 LB | 1.4 FB | N | Dec-20 | \$493 | PIPE SIZE: 3.2m = 100mm; 3.1m = 150mm |
| 21879-M-14-SW1 | - | SWMH 24118 | LOT 382 | OGILVIE | AVENUE | BERM | 100/150 | 6.2 | uPVC SN16 | 1.2 | 447197.60 | 702903.59 | 1.9 RB | 1.7 FB | N | Dec-20 | \$859 | PIPE SIZE: 4.0m = 100mm; 2.2m = 150mm |
| 21879-M-14-SW1 | - | SWMH 24118 | LOT 383 | OGILVIE | AVENUE | BERM | 100/150 | 11.7 | uPVC SN16 | 1.2 | 447214.54 | 702902.77 | 2.7 LB | 1.0 FB | N | Dec-20 | \$897 | PIPE SIZE: 6.3m = 100mm; 5.4m = 150mm |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 384 | OGILVIE | AVENUE | BERM | 100/150 | 9.5 | uPVC SN16 | 1.2 | 447223.75 | 702880.07 | 1.0 RB | 1.5 FB | N | Dec-20 | \$822 | PIPE SIZE: 3.5m = 100mm; 6.0m = 150mm |
| 21879-M-14-SW1 | SWMH 15.1 | SWMH 24118 | LOT 385 | OGILVIE | AVENUE | BERM | 100 | 4.6 | uPVC SN16 | 1.2 | 447224.29 | 702876.60 | 2.4 LB | 0.7 FB | N | Dec-20 | \$243 | |
| 21879-M-14-SW1 | - | SWMH 15.1 | LOT 386 | OGILVIE | AVENUE | BERM | 100 | 4.8 | uPVC SN16 | 1.2 | 447233.12 | 702858.03 | 1.2 RB | 1.8 FB | N | Dec-20 | \$253 | |
| 21879-M-14-SW1 | - | SWMH 15.1 | LOT 387 | OGILVIE | AVENUE | BERM | 100/150 | 10.3 | uPVC SN16 | 1.2 | 447233.50 | 702855.04 | 1.7 LB | 1.0 FB | N | Dec-20 | \$854 | PIPE SIZE: 4.3m = 100mm; 6.0m = 150mm |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 388 | KIBBLEWHITE | ROAD | BERM | 100 | 4.6 | uPVC SN16 | 1.2 | 447261.39 | 702826.62 | 1.5 RB | 0.7 FB | N | Dec-20 | \$243 | |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 389 | KIBBLEWHITE | ROAD | BERM | 100/150 | 7.0 | uPVC SN16 | 1.2 | 447263.67 | 702828.19 | 1.2 LB | 1.5 FB | N | Dec-20 | \$499 | PIPE SIZE: 4.5m = 100mm; 2.5m = 150mm |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 390 | KIBBLEWHITE | ROAD | BERM | 100 | 6.8 | uPVC SN16 | 1.2 | 447290.00 | 702837.04 | 4.2 RB | 1.5 FB | Ν | Dec-20 | \$711 | |
| 21879-M-14-SW1 | - | SWMH 24122 | LOT 391 | GUILLAUME | STREET | BERM | 100 | 7.9 | uPVC SN16 | 1.2 | 447278.75 | 702869.77 | 2.4 RB | 1.6 FB | N | Dec-20 | \$417 | |
| 21879-M-14-SW1 | - | SWMH 24122 | LOT 392 | GUILLAUME | STREET | BERM | 100/150 | 10.6 | uPVC SN16 | 1.2 | 447276.72 | 702873.85 | 2.1 LB | 1.8 FB | N | Dec-20 | \$834 | PIPE SIZE: 5.3m = 100mm; 5.3m = 150mm |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 393 | GUILLAUME | STREET | BERM | 100 | 4.3 | uPVC SN16 | 1.2 | 447270.21 | 702893.14 | 1.7 RB | 0.6 FB | N | Dec-20 | \$227 | |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 394 | GUILLAUME | STREET | BERM | 100/150 | 10.1 | uPVC SN16 | 1.2 | 447268.45 | 702895.76 | 1.4 LB | 1.2 FB | N | Dec-20 | \$864 | PIPE SIZE: 3.7m = 100mm; 6.4m = 150mm |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 395 | GUILLAUME | STREET | BERM | 100/150 | 10.4 | uPVC SN16 | 1.2 | 447259.03 | 702919.54 | 1.0 RB | 1.5 FB | N | Dec-20 | \$875 | PIPE SIZE: 4.1m = 100mm; 6.3m = 150mm |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 396 | GUILLAUME | STREET | BERM | 100/150 | 7.8 | uPVC SN16 | 1.2 | 447275.78 | 702926.55 | 0.7 LB | 1.5 FB | N | Dec-20 | \$645 | PIPE SIZE: 3.3m = 100mm; 4.5m = 150mm |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 397 | GUILLAUME | STREET | BERM | 100 | 4.7 | uPVC SN16 | 1.2 | 447283.37 | 702904.41 | 2.9 RB | 0.7 FB | N | Dec-20 | \$248 | |
| 21879-M-14-SW1 | SWMH 24122 | SWMH 24123 | LOT 398 | GUILLAUME | STREET | BERM | 100/150 | 7.9 | uPVC SN16 | 1.2 | 447285.50 | 702901.67 | 0.4 LB | 1.7 FB | N | Dec-20 | \$603 | PIPE SIZE: 4.3m = 100mm; 3.6m = 150mm |
| 21879-M-14-SW1 | - | SWMH 24122 | LOT 399 | GUILLAUME | STREET | BERM | 100 | 4.6 | uPVC SN16 | 1.2 | 447295.57 | 702877.23 | 0.8 RB | 1.7 FB | N | Dec-20 | \$243 | |
| 21879-M-14-SW1 | - | SWMH 24122 | LOT 400 | GUILLAUME | STREET | BERM | 100/150 | 12.3 | uPVC SN16 | 1.2 | 447295.91 | 702873.77 | 2.5 LB | 0.7 FB | N | Dec-20 | \$985 | PIPE SIZE: 5.8m = 100mm; 6.5m = 150mm |
| 21879-M-14-SW1 | SWMH 21.2 | SWMH 19.1 | LOT 401 | GOSSET | ROAD | BERM | 100/150 | 10.2 | uPVC SN16 | 1.2 | 447338.36 | 702837.96 | 0.6 LB | 2.0 FB | N | Dec-20 | \$844 | PIPE SIZE: 4.3m = 100mm; 5.9m = 150mm |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 402 | KIBBLEWHITE | ROAD | BERM | 100/150 | 9.1 | uPVC SN16 | 1.2 | 447277.46 | 702815.86 | 1.0 RB | 1.4 FB | N | Dec-20 | \$754 | PIPE SIZE: 3.8m = 100mm; 5.3m = 150mm |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 403 | KIBBLEWHITE | ROAD | BERM | 100 | 4.3 | uPVC SN16 | 1.2 | 447274.53 | 702815.43 | 1.9 LB | 0.9 FB | N | Dec-20 | \$232 | |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 404 | KIBBLEWHITE | ROAD | BERM | 100/150 | 8.1 | uPVC SN16 | 1.2 | 447251.38 | 702807.84 | 1.0 RB | 1.2 FB | N | Dec-20 | \$655 | PIPE SIZE: 3.9m = 100mm; 4.2m = 150mm |
| 21879-M-14-SW1 | SWMH 20.1 | SWMH 19.1 | LOT 405 | KIBBLEWHITE | ROAD | BERM | 100 | 4.9 | uPVC SN16 | 1.2 | 447248.59 | 702806.92 | 1.9 LB | 1.2 FB | N | Dec-20 | \$253 | |
| 21879-M-14-SW1 | - | SWMH 20.1 | LOT 406 | KIBBLEWHITE | ROAD | BERM | 100 | 9.0 | uPVC SN16 | 1.2 | 447227.40 | 702800.35 | 3.1 RB | 1.1 FB | N | Dec-20 | \$475 | |

| As Built Datashe | et (to acco | mpany As Built Pla | ns) | | | | | | | | | Waikato Regional ITS | | | |
|---------------------|---|-------------------------------------|-----------------------------------|-------------|-----------------|--------------------|--------------------|------------------------|-------------------|--------------|-------------|---------------------------------|--|--|--|
| STORMWATE | STORMWATER CATCHPITS | | | | | | | | | | | | | | |
| Developer/Contracto | r: | | Chedworth Properties Ltd / Online | Contractors | Prepared by: | | S & L | | | | | | | | |
| Development/Subdiv | vevelopment/Subdivision/Job: Greenhill Park | | | | | | May-21 | | - | | | | | | |
| Stage: | Stage: Stage 14 | | | | - | | | | - | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Plan ID | Catchpit ID | Property ID (Lot No. or Address) | Street Name | Street Type | e Catchpit Type | Grate Level (m) | Easting Coordinate | Northing Coordinate | Service Status | Install Date | Asset Value | Comments | | | |
| 21879-M-14-SW1 | DCP 112 | LOT 361 DP 558430 | GUILLAUME | STREET | DOUBLE SUMP | 38.30 | 447324.74 | 702777.59 | N | Dec-20 | \$2,848 | | | | |
| 21879-M-14-SW1 | DCP 111 | LOT 401 | GOSSET | AVENUE | DOUBLE SUMP | 38.94 | 447316.55 | 702833.93 | N | Dec-20 | \$2,848 | | | | |
| 21879-M-14-SW1 | CP 110 | LOT 402 | KIBBLEWHITE | ROAD | SINGLE SUMP | 38.88 | 447298.07 | 702827.04 | N | Dec-20 | \$2,071 | | | | |
| 21879-M-14-SW1 | CP 108 | LOT 328 | GUILLAUME | STREET | SINGLE SUMP | 38.97 | 447303.22 | 702842.50 | N | Dec-20 | \$2,071 | | | | |
| 21879-M-14-SW1 | CP 107 | LOT 390 | GUILLAUME | STREET | SINGLE SUMP | 38.95 | 447298.05 | 702842.23 | N | Dec-20 | \$2,071 | | | | |
| 21879-M-14-SW1 | CP 087 | LOT 377 | OGILVIE | AVENUE | SINGLE SUMP | 39.10 | 447221.82 | 702854.57 | N | Dec-20 | \$2,071 | | | | |
| 21879-M-14-SW1 | CP 088 | LOT 382 | OGILVIE | AVENUE | SINGLE SUMP | 38.84 | 447202.56 | 702903.52 | E | Jan-20 | N/A | EXISTING CATCHPIT FROM STAGE 11 | | | |

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| As Built Datasheet (to accompany As Built Plans) Waikato Regional ITS | | | | | | | | | | | | | | |
|---|---------------------------------|------------------------|-------------------------------------|-------------|-------------|-------------------------------------|---------------------------------------|--|--------------------------------|--------------------------------------|-------------------|--------------|-------------|---------------------------------|
| STORMWATER CATCHPIT LEADS | | | | | | | | | | | | | | |
| Developer/Contracto | Prepared by: | S & L | | | _ | | | | | | | | | |
| Development/Subdiv | Development/Subdivision/Job: Gr | | | | _ | Date: | May-21 | | | - | | | | |
| Stage: | | | Stage 14 | | - | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Plan ID | Catchpit ID | Dwnstr MH/ Asset ID | Property ID (Lot No. or Address) | Street Name | Street Type | Physical Location (where necessary) | Catchpit Lead Pipe Diam (mm) | Catchpit Lead Pipe Length (m) | Catchpit Lead Pipe Material | Invert Level at Dwnstrm end | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-SW1 | DCP 112 | SWMH 19.4 | LOT 361 | GUILLAUME | STREET | ROADWAY | 300 | 9.8 | uPVC SN16 | 36.63 | Ν | Dec-20 | \$2,274 | |
| 21879-M-14-SW1 | DCP 111 | SWMH 19.4 | LOT 401 | GUILLAUME | STREET | ROADWAY | 300 | 9.9 | uPVC SN16 | 36.36 | Ν | Dec-20 | \$2,297 | |
| 21879-M-14-SW1 | CP 110 | SWMH 19.1 | LOT 402 | KIBBLEWHITE | ROAD | ROADWAY | 225 | 5.8 | uPVC SN16 | 37.28 | Ν | Dec-20 | \$1,346 | |
| 21879-M-14-SW1 | CP 108 | SWMH 19.1 | LOT 328 | GUILLAUME | STREET | ROADWAY | 225 | 7.7 | uPVC SN16 | 37.68 | Ν | Dec-20 | \$1,786 | |
| 21879-M-14-SW1 | CP 107 | SWMH 19.1 | LOT 390 | GUILLAUME | STREET | ROADWAY | 225 | 10.1 | uPVC SN16 | 37.68 | Ν | Dec-20 | \$2,343 | |
| 21879-M-14-SW1 | CP 087 | SWMH 15.1 | LOT 377 | OGILVIE | AVENUE | ROADWAY | 225 | 1.7 | uPVC SN16 | 37.92 | Ν | Dec-20 | \$394 | |
| 21879-M-14-SW1 | CP 088 | SWM24118 | LOT 382 | OGILVIE | AVENUE | ROADWAY | 225 | 2.6 | uPVC SN16 | 37.80 | E | Jan-20 | N/A | EXISTING CATCHPIT FROM STAGE 11 |

| As Built Datashoot | (to accompan | v Ac Built Plane) | | | | | | | | | | | | | | | Waikata Pagional ITS |
|---|-----------------|-----------------------------------|----------------|-------------------------------------|--------------------------|-----------------------|---------------|------------------------------|----------------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|----------------|--------------|-------------|----------------------------|
| STORMWATER S | | | | | | | | | | | | | | | | | Form Version 1 - July 2017 |
| Developer/Contractor | | Chadworth Properties Ltd / Opling | Contractor | | Bronorod | | e • 1 | | | | | | | | | | |
| Developer/Contractor: Chedworth Properties Ltd / Online Contractors | | | 5 | Prepareu | Jy. | S & L | | - | | | | | | | | | |
| Development/Subdivision | 1/JOD: | | | - | Date: | | May-21 | | - | | | | | | | | |
| Stage: | | Slage 14 | | - | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Plan ID | Dwnstr Asset ID | Street Name | Street Type | Physical Location (where necessary) | Pipe Diameter (mm) | Pipe Length (m) | Pipe Material | Invert Level Upstr (m) | Invert Level Dwnstr (m) | Easting Coordinate Inlet | Northing Coordinate Inlet | Easting Coordinate Outlet | Northing Coordinate Outlet | Service Status | Install Date | Asset Value | Comments |
| 21879-M-14-SW1 | DCP 113 | GUILLAUME | STREET | BERM | 100 | 18.2 | NOVA | 38.25 | 37.55 | | | | | N | Dec-20 | \$928 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | DCP 111 | GOSSET | AVENUE | BERM | 100 | 24.8 | NOVA | 38.37 | 38.19 | | | | | N | Dec-20 | \$1,265 | |
| 21879-M-14-SW1 | CP 108 | GUILLAUME | STREET | BERM | 100 | 65.0 | NOVA | 38.52 | 38.22 | | | | | N | Dec-20 | \$3,315 | |
| 21879-M-14-SW1 | CP 093 | GUILLAUME | STREET | BERM | 100 | 53.4 | NOVA | 38.49 | 38.00 | | | | | N | Dec-20 | \$2,723 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | CP 110 | KIBBLEWHITE | ROAD | BERM | 100 | 62.2 | NOVA | 38.36 | 38.13 | | | | | N | Dec-20 | \$3,172 | |
| 21879-M-14-SW1 | CP092 | GUILLAUME | STREET | BERM | 100 | 52.6 | NOVA | 38.48 | 38.03 | | | | | Ν | Dec-20 | \$2,683 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | CP 107 | KIBBLEWHITE | ROAD | BERM | 100 | 94.0 | NOVA | 38.81 | 38.20 | | | | | N | Dec-20 | \$4,794 | |
| 21879-M-14-SW1 | DCP056 | KIBBLEWHITE | ROAD | BERM | 100 | 22.2 | NOVA | 38.58 | 37.63 | | | | | N | Dec-20 | \$1,132 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | CP 090 | OGILVIE | AVENUE | BERM | 100 | 50.2 | NOVA | 38.56 | 37.52 | | | | | N | Dec-20 | \$2,558 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | CP 088 | OGILVIE | AVENUE | BERM | 100 | 50.2 | NOVA | 38.37 | 38.09 | | | | | N | Dec-20 | \$2,560 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | CP 087 | OGILVIE | AVENUE | BERM | 100 | 87.5 | NOVA | 38.83 | 38.35 | | | | | Ν | Dec-20 | \$4,463 | |
| 21879-M-14-SW1 | DCP 055 | KIBBLEWHITE | ROAD | BERM | 100 | 15.8 | NOVA | 38.36 | 37.54 | | | | | N | Dec-20 | \$806 | EXISTING CATCHPIT |
| 21879-M-14-SW1 | DCP 112 | GUILLAUME | STREET | BERM | 100 | 51.5 | NOVA | 38.18 | 37.55 | | | | | N | Dec-20 | \$2,625 | |